TOSHIBA

FILE NO. 023-200518
SUPPLEMENT

SERVICE MANUAL

Projection Television

46HM95
52HM95

– SUMMARY –

46HM95/52HM95 is the same as 62HM95 except for the parts tabled on back of this sheet.
Use this service manual together with the service manual of 62HM95 (File No. 020-200510).

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TOSHIBA

FILE NO. 020-200510
(REVISED.3)

SERVICE MANUAL

Projection Television

62HM95

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CIRCUIT DIAGRAM

SAFETY INSTRUCTIONS

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. When replacing a chassis in the cabinet, always be certain that all the prospective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety character istics as specified in the parts list may create shock, fire, or other hazards.

SERVICE MODE

1. ENTERING SERVICE MODE

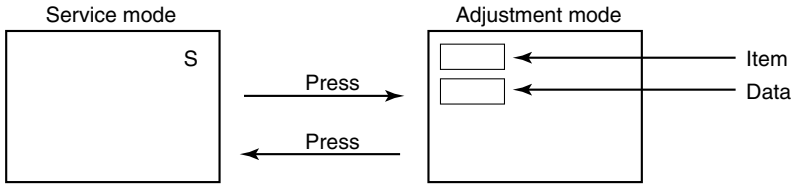
1) Press MUTE button twice on Remote Control.
2) Press MUTE button again and keep pressing.
3) While pressing the MUTE button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on Remote Control.



3. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-1 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 9)

4. ADJUSTING THE DATA

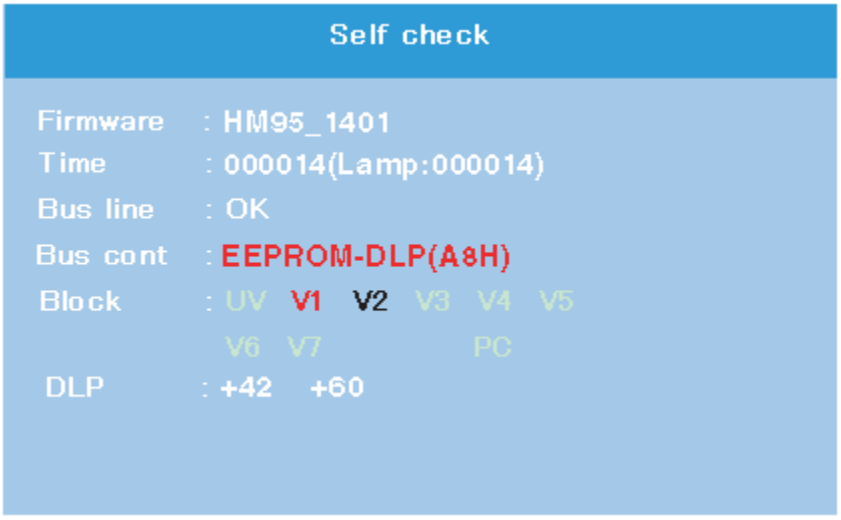
1) Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

5. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

6. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s is executed properly.
2) During diagnosis, the following displays are shown.


Self check
① Firmware : HM95_1401
② Time : 000014(Lamp:000014)
③ Bus line : OK
④ Bus cont : EEPROM-DLP(A8H)
⑤ Block : UV V1 V2 V3 V4 V5
V6 V7 PC
⑥ DLP : +42 +60

① Firmware :
Version information of microprocessor
In case of file name : HM95 and Version : 1401 indicates[HM95_1401].

② Time : Total brightness hour of the projection lamp. (Unit : H)

③ Bus line : --"OK" is normal
"SCL-GND"(Red indication) : SCL-GND short circuit
"SDA-GND"(Red indication) : SDA-GND short circuit
"SCL-SDA"(Red indication) : SCL-SDA short circuit

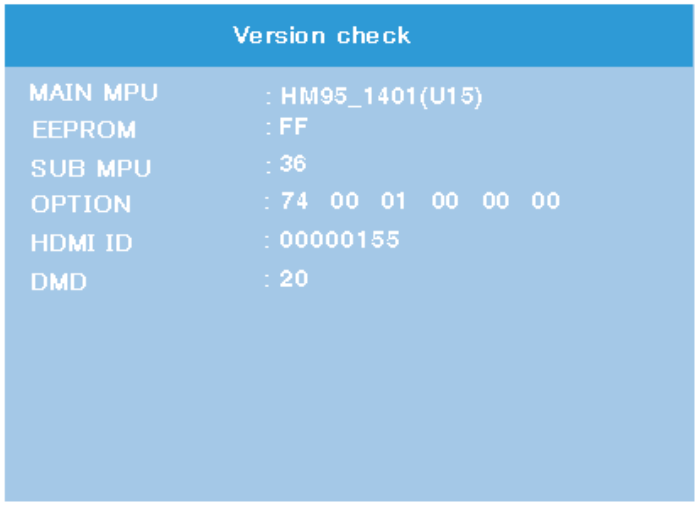
④ Bus cont : --- "OK" is normal.
NG is abnormal(Red indication).
When type name of semiconductor indicates.

⑤ Block
UV : TV reception mode
V1 : VIDEO 1 input mode
V2 : VIDEO 2 input mode
V3 : VIDEO 3 input mode
V4 : ColorStream HD-1 IN
V5 : ColorStream HD-2 IN
V6 : HDMI IN 1
V7 : HDMI IN 2

⑥ DLP : Thermal sensor values information that indicates both of nearby the projection lamp and DMD microprocessor into the unit.

7. VERSION CHECK MODE

1) Press “9” button twice on Remote Control during display of adjustment menu in the service mode. The version of main MPU will begin to check.
2) During Version Check, the following displays are shown.



① MAIN MPU :
Version information of microprocessor
In case of file name : HM95, Version 1401 for Code Program Version and (U15) for OSD Version indicates [HM95_1401(U15)]

② EEPROM :
Version information of EEPROM : Display 1 byte data.

③ SUB MPU :
Version information of SUB MPU : Display 1 byte data.

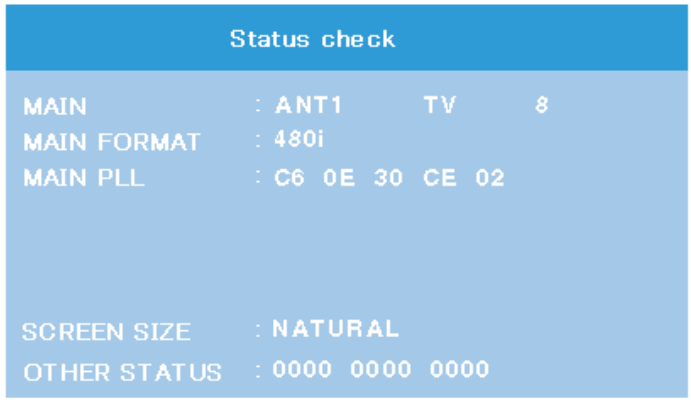
④ OPTION :
Option information : Display six numbers of 1 byte data.

⑤ HDMI ID :
HDMI ID information : Display 4 byte data.

⑥ DMD :
Version information of DMD optical engine : Display 1 byte data.

8. STATUS CHECK MODE

1) Press “9” button thrice on Remote Control during display of adjustment menu in the service mode. The status of this model will begin to check.
2) During Status Check, the following displays are shown.



① MAIN :
Main source information :
Display RF position number (1 - 135) on the main screen, or Input Source (ANT1/2, CABLE, TV etc.)

② MAIN FORMAT :
Display Video and PC format information

③ MAIN PLL :
Main PLL information : Display 1 byte data at five.

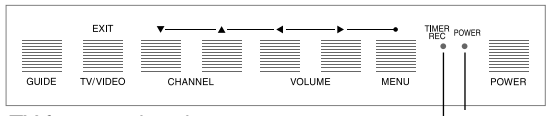
④ SCREEN SIZE :
Display the screen size as follows.

Theater Wide 1
Theater Wide 2
Theater Wide 3
FULL
NATURAL

⑤ OTHER STATUS :
Other status information : Display three numbers of 2 byte data.

9. LED indications

The green and red LED lights are on the TV front touchpad, to the left of the POWER button.
The green and red LED lights on the TV control touchpad (on the lower right corner of the TV screen) indicate the TV's current status, as follows:



TV front touchpad

Red LED

Green LED

	LED Indication	Condition	Solution
1	Red and Green turn off.	Power supply OFF. (AC)	
2	Red and Green turn off.	Power supply OFF. (Standby)	
3	Red light solid and Green off.	Power supply ON.	
4	Green blinks continuously at 0.5-second intervals; Red is OFF.	Lamp LPS mode	
5	Green blinks continuously at 0.5-second intervals; Red is ON(solid).	The lamp is not working properly.	The TV automatically will try to restarat itself eight times (see item #7).
6	Green blinks continuously at 3-seconds intervals. Red blinks continuously at 0.5-second intervals.	The lamp unit door is not seated properly. (U)	Turn OFF the TV and unplug the power cord. Review “LAMP UNIT REPLACEMENT” on pages 10-12 to ensure that the lamp unit door is installed securely.
7	Green and Red blink continuously at 1-second intervals.	The lamp is not working properly after the after the eight automatic restart. (see item #6). (U)	Turn OFF the TV and then ON again. If the problem persists, replace the lamp unit (see pages 10-12).
8	Red blinks continuously at 0.5-second intervals; Green is OFF.	FAN (Light engine unit) has stopped.	• Is the output voltage of the supply voltage regulator for the FAN in the power circuit normal? • Has dust accumulated in the FAN? → If the output voltage is not abnormal, replace the faulty FAN with a new one.
9	Red blinks continuously at 1-second intervals; Green is OFF.	BUS line is damaged	• Check the faulty device through the self diagnostics function under SERVICE mode. • Does BUS line (SCL, SDA) work normally? → If the BUS line is under abnormal conditions, replace the faulty device with a new one.
10	Red blinks continuously at 0.2-second intervals 3 times (repeat); Green is OFF.	The color wheel has stopped.	• Is the output voltage of the power supply circuit normal? → If the output voltage is normal, replace the engine with a new one.
11	Red blinks continuously at 0.2-second intervals 4 times (repeat); Green is OFF.	Temperature rises abnormally.	• Is the ventilating hole in the set (exhaust slot on the rear) blocked or covered? • Is FAN rotating normally? • Has dust accumulated in the ventilating hole? → If no abnormally conditions are found, replace the engine with a new one.

(U) is restoration by the user.

SETTING & ADJUSTING DATA

【SERVICE MODE】

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Item	Name of adjustment	Preset	Data
RCUT	R CUT OFF	00H	←
GCUT	G CUTOFF	00H	←
BCUT	B CUT OFF	00H	←
GDRV	G DRIVE	80H	←
BDRV	B DRIVE	80H	←
RDRV	R DRIVE	80H	←
＊BRTC	BRIGHTNESS CENTER	FAH	←
＊COLC	COLOR CENTER	C8H	←
＊UVTT	BASE BAND TINT	FEH	←
＊CNTX	CONTRAST MAX	80H	←
CNTCG	G CONTRAST CENTER	64H	←
CNTCR	R CONTRAST CENTER	64H	←
CNTCB	B CONTRAST CENTER	64H	←
HPOS	H-POSITION	00H	←

Item	Name of adjustment	Preset	Data
VPOS	V-POSITION	00H	←
CWDH	COLOR WHEEL DELAY (HIGH)	00H	←
CWDL	COLOR WHEEL DELAY (LOW)	00H	←
DMDB	DMD BIAS	03H	←
OPT1	TV SET OPTION 1	74H	←
OPT2	TV SET OPTION 2	00H	←
OPT3	TV SET OPTION 3	01H	←
TVOP	TV OPTION	40H	←
PLLW0	PLL WAIT TIME	14H	←
PLLW1	PLL WAIT TIME	03H	←
PLLW2	PLL WAIT TIME	0FH	←
PLLW3	PLL WAIT TIME	05H	←
PLLW4	PLL WAIT TIME	14H	←
PLLW5	PLL WAIT TIME	04H	←

Table-1

Note:

The image system data of ＊ mark items are different by each image format.

The RF-Signal value is indicated in the table.

LAMP UNIT REPLACEMENT

Cautions when replacing LAMP UNIT (E998Z; PJ-D95-LMP)

The light source for this TV is a mercury lamp with internal atmospheric pressure that increases during use. The lamp has a limited service life that varies depending on user settings. If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture (often making a loud noise when this happens). If the lamp reputres, the TV will not operate until the lamp unit is replaced.

Note: The lamp unit is designed so broken lamp glass remains securely inside the lamp unit.

CAUTION: Always handle the lamp unit with care.
The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing edges or pinch points.

When to replace the lamp unit

You should replace the lamp unit:

- if the picture darkens and/or colors fade;
- if the lamp does not light; or
- If you hear a loud noise and the picture goes black, which may indicate a lamp rupture (LED indication #8). See LED indications on page 6.

Note: Be sure wear the gloves before replacing the lamp unit.

1. Turn off the TV and unplug the power cord.

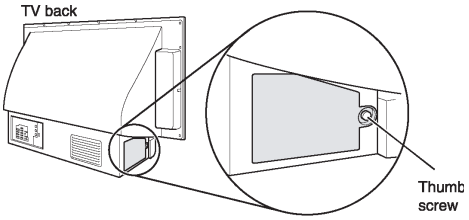
WARNING: Eye damage may result from directly viewing the light produced by this lamp. Always turn off the TV and unplug the power cord before opening the lamp unit door.

2. STOP! Allow the lamp to cool for at least one (1) hour before replacing it.

CAUTION: HOT SURFACE

The temperature of the lamp immediately after use exceeds 392 F (200 C). Touching the lamp at this temperature will result in injury. **ALLOW THE LAMP TO COOL FOR AT LEAST ONE (1) HOUR BEFORE REPLACING IT.**

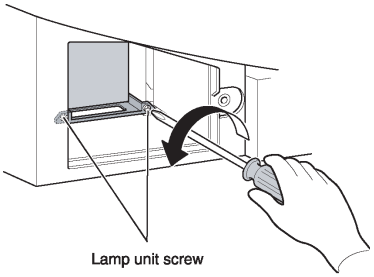
3. On the back of the TV, loosen the thumb screw (by hand) on the lamp unit door, and then remove the lamp unit door.



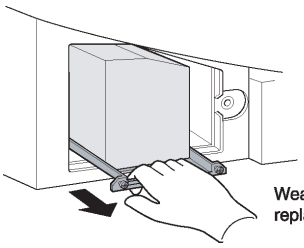
Lamp unit door detail

WARNING: The lamp unit door is provided with an interlock to reduce the risk of electric shock and excessive ultraviolet radiation. **Never defeat its purpose or attempt to service without removing the lamp unit door completely.** Failure to follow this WARNING may result in death or serious injury.

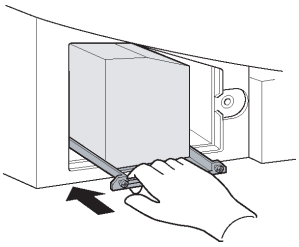
4. Using a manual screwdriver, loosen two screws on the lamp unit.


Lamp unit screw

5. Grasp the lamp unit handle and gently pull the lamp unit straight out of the TV. Set the old lamp unit aside.

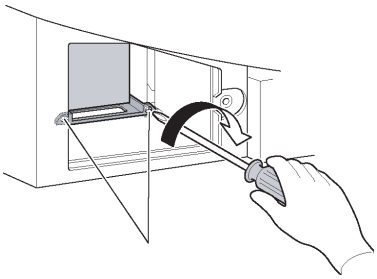

Wear gloves when replacing the lamp unit

6. Carefully insert the new lamp unit straight into the TV until it is fully seated.



Note :
- Never subject the lamp unit to excessive shock.
- Never touch the lamp unit glass or otherwise get it dirty.
- Doing so may affect the image quality and reduce the service life of the lamp. See “Cleaning the lamp unit glass” below.

7. Using a manual screwdriver, tighten two lamp unit screws.
Note:Hand-tighten only. Do not use an electric screwdriver.

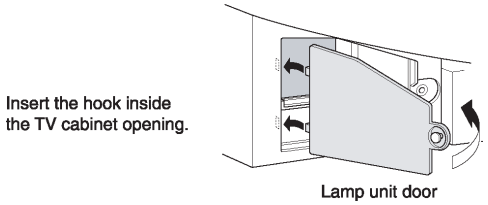

Lamp unit screw
(hand-tighten only)

Cleaning the lamp unit glass

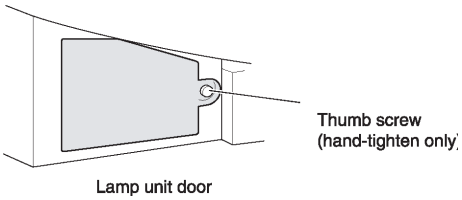
If you accidentally touch the lamp unit glass or otherwise get it dirty, wipe it with a lint-free lens cleaning cloth (such as a cloth for cleaning camera lenses or eyeglasses).

CAUTION: NEVER clean a hot lamp with any type of flammable liquid or aerosol cleaning agent. Many ordinary cleaning agents (such as glass cleaners) contain chemicals that may be flammable at certain temperatures. If the lamp unit is not allowed to cool for at least one (1) hour, such chemicals may ignite.

8. Reattach the lamp unit door, making sure to insert the hook on the left side of the lamp unit door inside the opening in the TV cabinet.



9. Replace the thumb screw and hand-tighten.



NOTE: Make sure the lamp unit and screw are installed securely; otherwise, the TV may not turn on and the lamp life may be shortened.

10. Plug in the power cord and turn on the TV. After the initial warmup period (which may take up to 45 seconds for full picture brightness), the TV should operate normally. If any of the following conditions exist, turn off the TV, unplug the power cord, and repeat steps 1-9 to ensure that the lamp unit and lamp unit door are installed correctly:
    - No picture
    - Dark picture
    - TV will not turn on

LIGHT ENGINE REPLACEMENT

Cautions when replacing LIGHT ENGINE

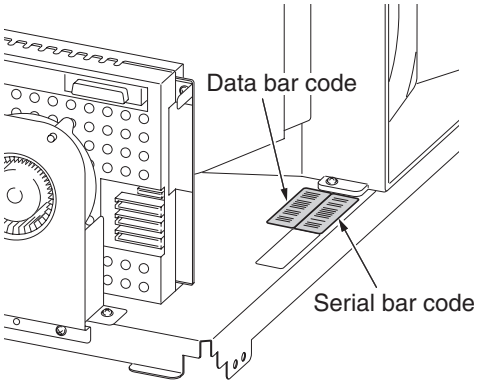
LIGHT ENGINE UNIT:

A271 : LV-672 TB 0D
(Including with E998Z, SK01 to SK04, SK06,SK08 and SK09.)

- LIGHT ENGINE is a heart of the TV and emits high heat. Make sure to replace it after turning off the TV and wait for sufficient cool down. (More than one hour is recommended.)
- Do not impact during replacement; otherwise, some parts may be damaged.
- Do not touch optical lens. Adhesion of dirt may deteriorate its performance.
- Do not loosen any screw other than those to be removed for adjustment or replacement.
- LIGHT ENGINE emits ultraviolet rays when the TV is ON. Make sure to be careful.

1. Replacement of Light Engine Unit

1-1. When Light Engine Unit is replaced with a new one, adjustment is required. Adjusted values are described in bar code, and the values of bar code must be converted to the adjusted values for the setup. There are 2 types of bar code.



Serial bar code
Ex. 52A000A111111
Inch size
Serial numbers

Data bar code (CW: color wheel)
Ex. A000000B1111
CWdelay number: 4digits
DMD bias value
Substrate serial numbers

1-2. Adjustment is made from service mode. The adjusting items consist of CWDL, CWDH and DMDB.

CWDL CWDH

When CW delay number of the data bar code is 0450:

0450 indicates ⇒ 450 ⇒ 45.0
Double 45.0 to form hexadecimal number (HEX).

45.0 x 2=90 ⇒ 5A (hexadecimal)
The adjusted value becomes “5A” for CWDL and “00” for CWDH.
If hexadecimal number forms 3 or 4 digits, the latter 2 digits indicate CWDL while the first 2 digits indicate CWDH.
(For 3 digits, CWDH=0*)

Note:
For converting decimal number to hexadecimal number, see the conversion table on the next page.

DMDB

Read DMD bias value described in alphabet from the data bar code. In service mode, DMDB value is converted and fixed by the following table.

DMD value in bar code	Adjusted value (Hex)
B	00
C	01
D	02
E	03
F	04

Refer to Service Mode for adjusting the service mode.

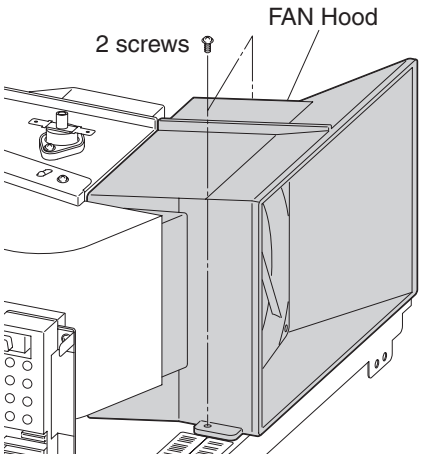
Conversion Table for Decimal and Hexadecimal Numbers

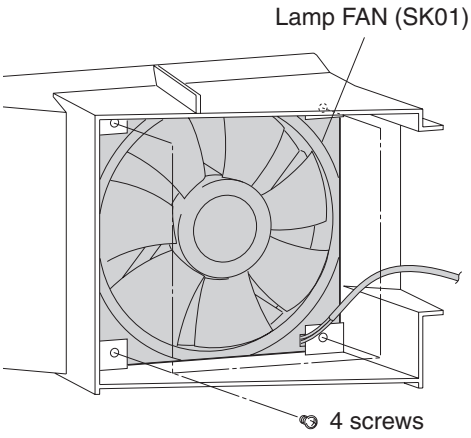
CW delay number	CWDH	CWDL
0000	00	00
0005	00	01
0010	00	02
0015	00	03
0020	00	04
0025	00	05
0030	00	06
0035	00	07
0040	00	08
0045	00	09
0050	00	0A
0055	00	0B
0060	00	0C
0065	00	0D
0070	00	0E
0075	00	0F
0080	00	10
0085	00	11
0090	00	12
0095	00	13
0100	00	14
0105	00	15
0110	00	16
0115	00	17
0120	00	18
0125	00	19
0130	00	1A
0135	00	1B
0140	00	1C
0145	00	1D
0150	00	1E
0155	00	1F
0160	00	20
0165	00	21
0170	00	22
0175	00	23
0180	00	24
0185	00	25
0190	00	26
0195	00	27
0200	00	28
0205	00	29
0210	00	2A
0215	00	2B
0220	00	2C
0225	00	2D
0230	00	2E
0235	00	2F
0240	00	30
0245	00	31
0250	00	32
0255	00	33
0260	00	34
0265	00	35
0270	00	36
0275	00	37
0280	00	38
0285	00	39
0290	00	3A
0295	00	3B
0300	00	3C
0305	00	3D
0310	00	3E
0315	00	3F
0320	00	40
0325	00	41
0330	00	42
0335	00	43
0340	00	44
0345	00	45
0350	00	46
0355	00	47
0360	00	48
0365	00	49
0370	00	4A
0375	00	4B
0380	00	4C
0385	00	4D
0390	00	4E
0395	00	4F
0400	00	50
0405	00	51
0410	00	52
0415	00	53
0420	00	54
0425	00	55
0430	00	56
0435	00	57
0440	00	58
0445	00	59
0450	00	5A
0455	00	5B
0460	00	5C
0465	00	5D
0470	00	5E
0475	00	5F
0480	00	60
0485	00	61
0490	00	62
0495	00	63
0500	00	64
0505	00	65
0510	00	66
0515	00	67
0520	00	68
0525	00	69
0530	00	6A
0535	00	6B
0540	00	6C
0545	00	6D
0550	00	6E
0555	00	6F
0560	00	70
0565	00	71
0570	00	72
0575	00	73
0580	00	74
0585	00	75
0590	00	76
0595	00	77
0600	00	78
0605	00	79
0610	00	7A
0615	00	7B
0620	00	7C
0625	00	7D
0630	00	7E
0635	00	7F
0640	00	80
0645	00	81
0650	00	82
0655	00	83
0660	00	84
0665	00	85
0670	00	86
0675	00	87
0680	00	88
0685	00	89
0690	00	8A
0695	00	8B
0700	00	8C
0705	00	8D
0710	00	8E
0715	00	8F
0720	00	90
0725	00	91
0730	00	92
0735	00	93
0740	00	94
0745	00	95
0750	00	96
0755	00	97
0760	00	98
0765	00	99
0770	00	9A
0775	00	9B
0780	00	9C
0785	00	9D
0790	00	9E
0795	00	9F
0800	00	A0
0805	00	A1
0810	00	A2
0815	00	A3
0820	00	A4
0825	00	A5
0830	00	A6
0835	00	A7
0840	00	A8
0845	00	A9
0850	00	AA
0855	00	AB
0860	00	AC
0865	00	AD
0870	00	AE
0875	00	AF
0880	00	B0
0885	00	B1
0890	00	B2
0895	00	B3
0900	00	B4
0905	00	B5
0910	00	B6
0915	00	B7
0920	00	B8
0925	00	B9
0930	00	BA
0935	00	BB
0940	00	BC
0945	00	BD
0950	00	BE
0955	00	BF
0960	00	C0
0965	00	C1
0970	00	C2
0975	00	C3
0980	00	C4
0985	00	C5
0990	00	C6
0995	00	C7
1000	00	C8
1005	00	C9
1010	00	CA
1015	00	CB
1020	00	CC
1025	00	CD
1030	00	CE
1035	00	CF
1040	00	D0
1045	00	D1
1050	00	D2
1055	00	D3
1060	00	D4
1065	00	D5
1070	00	D6
1075	00	D7
1080	00	D8
1085	00	D9
1090	00	DA
1095	00	DB
1100	00	DC
1105	00	DD
1110	00	DE
1115	00	DF
1120	00	E0
1125	00	E1
1130	00	E2
1135	00	E3
1140	00	E4
1145	00	E5
1150	00	E6
1155	00	E7
1160	00	E8
1165	00	E9
1170	00	EA
1175	00	EB
1180	00	EC
1185	00	ED
1190	00	EE
1195	00	EF
1200	00	F0
1205	00	F1
1210	00	F2
1215	00	F3
1220	00	F4
1225	00	F5
1230	00	F6
1235	00	F7
1240	00	F8
1245	00	F9
1250	00	FA
1255	00	FB
1260	00	FC
1265	00	FD
1270	00	FE
1275	00	FF
1280	01	00
1285	01	01
1290	01	02
1295	01	03
1300	01	04
1305	01	05
1310	01	06
1315	01	07
1320	01	08
1325	01	09
1330	01	0A
1335	01	0B
1340	01	0C
1345	01	0D
1350	01	0E
1355	01	0F
1360	01	10
1365	01	11
1370	01	12
1375	01	13
1380	01	14
1385	01	15
1390	01	16
1395	01	17
1400	01	18
1405	01	19
1410	01	1A
1415	01	1B
1420	01	1C
1425	01	1D
1430	01	1E
1435	01	1F
1440	01	20
1445	01	21
1450	01	22
1455	01	23
1460	01	24
1465	01	25
1470	01	26
1475	01	27
1480	01	28
1485	01	29
1490	01	2A
1495	01	2B
1500	01	2C
1505	01	2D
1510	01	2E
1515	01	2F
1520	01	30
1525	01	31
1530	01	32
1535	01	33
1540	01	34
1545	01	35
1550	01	36
1555	01	37
1560	01	38
1565	01	39
1570	01	3A
1575	01	3B
1580	01	3C
1585	01	3D
1590	01	3E
1595	01	3F
1600	01	40
1605	01	41
1610	01	42
1615	01	43
1620	01	44
1625	01	45
1630	01	46
1635	01	47
1640	01	48
1645	01	49
1650	01	4A
1655	01	4B
1660	01	4C
1665	01	4D
1670	01	4E
1675	01	4F
1680	01	50
1685	01	51
1690	01	52
1695	01	53
1700	01	54
1705	01	55
1710	01	56
1715	01	57
1720	01	58
1725	01	59
1730	01	5A
1735	01	5B
1740	01	5C
1745	01	5D
1750	01	5E
1755	01	5F
1760	01	60
1765	01	61
1770	01	62
1775	01	63
1780	01	64
1785	01	65
1790	01	66
1795	01	67

PARTS REPLACEMENT IN LIGHT ENGINE

1. Replacement of Lamp FAN (SK01)

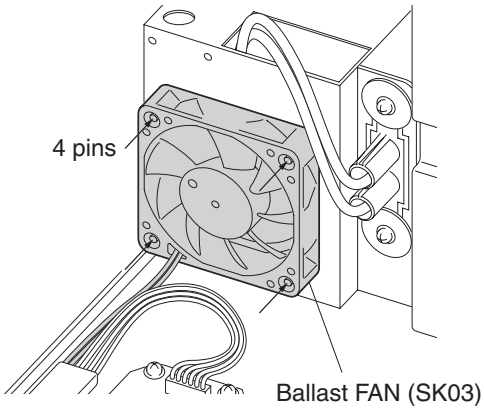
1-1. Replace the FAN for cooling Lamp (SK01), remove 2 screws on the FAN hood, and then remove 4 screws on the FAN for cooling Lamp.





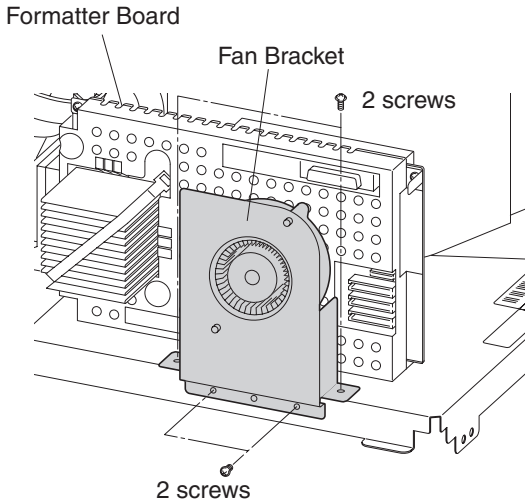
2. Replacement of Ballast FAN (SK03)

2-1. Replace the FAN for cooling Ballast Power Unit (SK03), remove the 4 pins by pressing into the unit, and then remove the FAN for cooling Ballast Power Unit.
NOTE:
Reinstalling the FAN for cooling Ballast Power Unit, attach the 4 pins by using removed them after replacing the FAN.

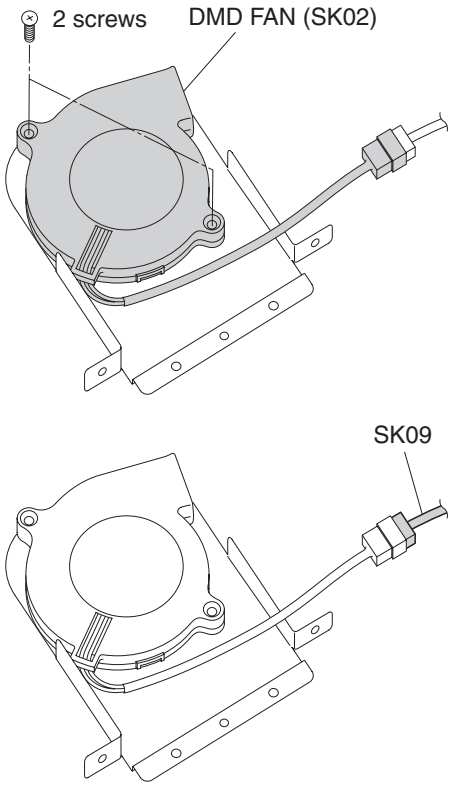


3. Replacement of DMD FAN (SK02) and FAN Transfer Cable (SK09)

3-1. Replace the FAN for cooling Formatter Board, detach the bracket with FAN by removing the 4 screws on the bracket.

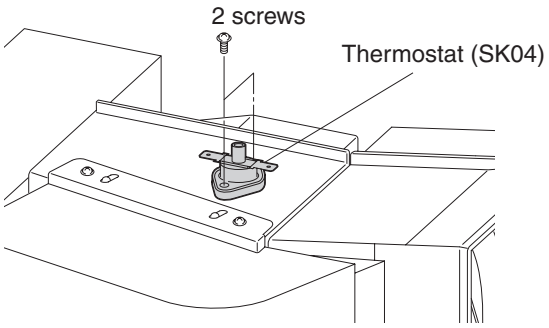


3-2. Remove the 2 screws from the bracket, and then remove the FAN for cooling Formatter Board (SK02).
3-3. Disconnect and replace the FAN transfer cable between Ballast and Formatter Boards (SK09).



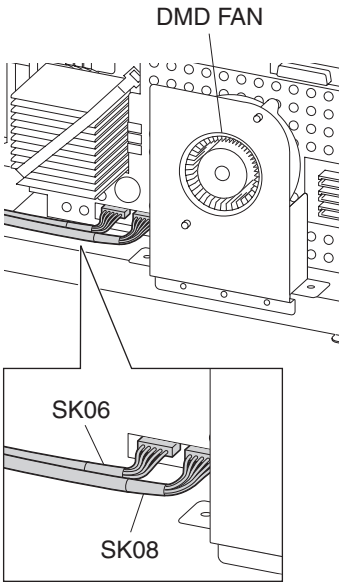
4. Replacement of Thermostat (Lamp Sensor) (SK04)

4-1. Replace the Thermostat (Lamp Sensor) (SK04), remove 2 screws on the Thermostat.



5. Replacement of Ballast to Formatter Board Cables (SK06 and SK08)

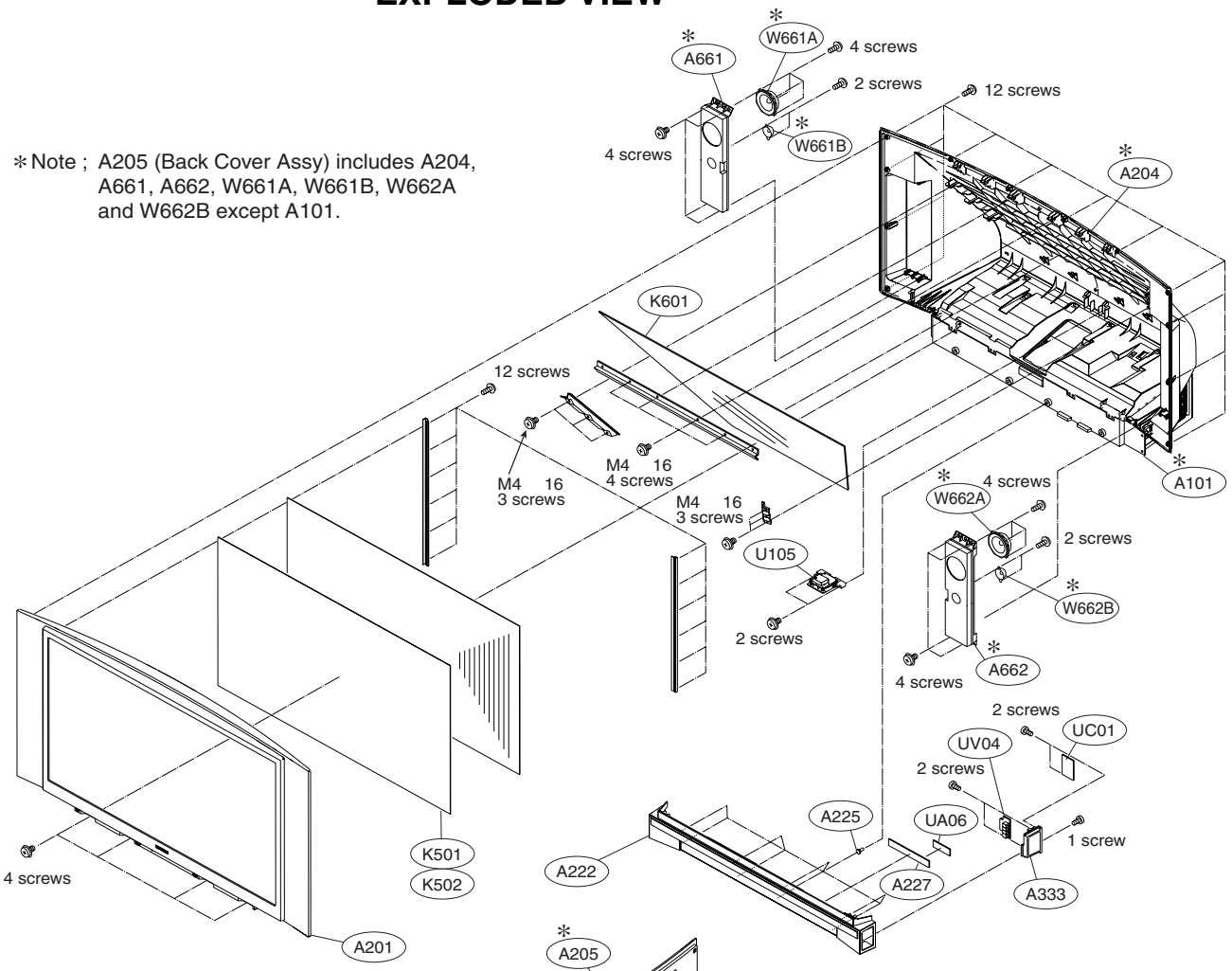
5-1. Disconnect and replace the cable between Ballast and Formatter Boards (SK06).
5-2. Disconnect and replace the cable between Smooth Picture and Formatter Boards (SK08).

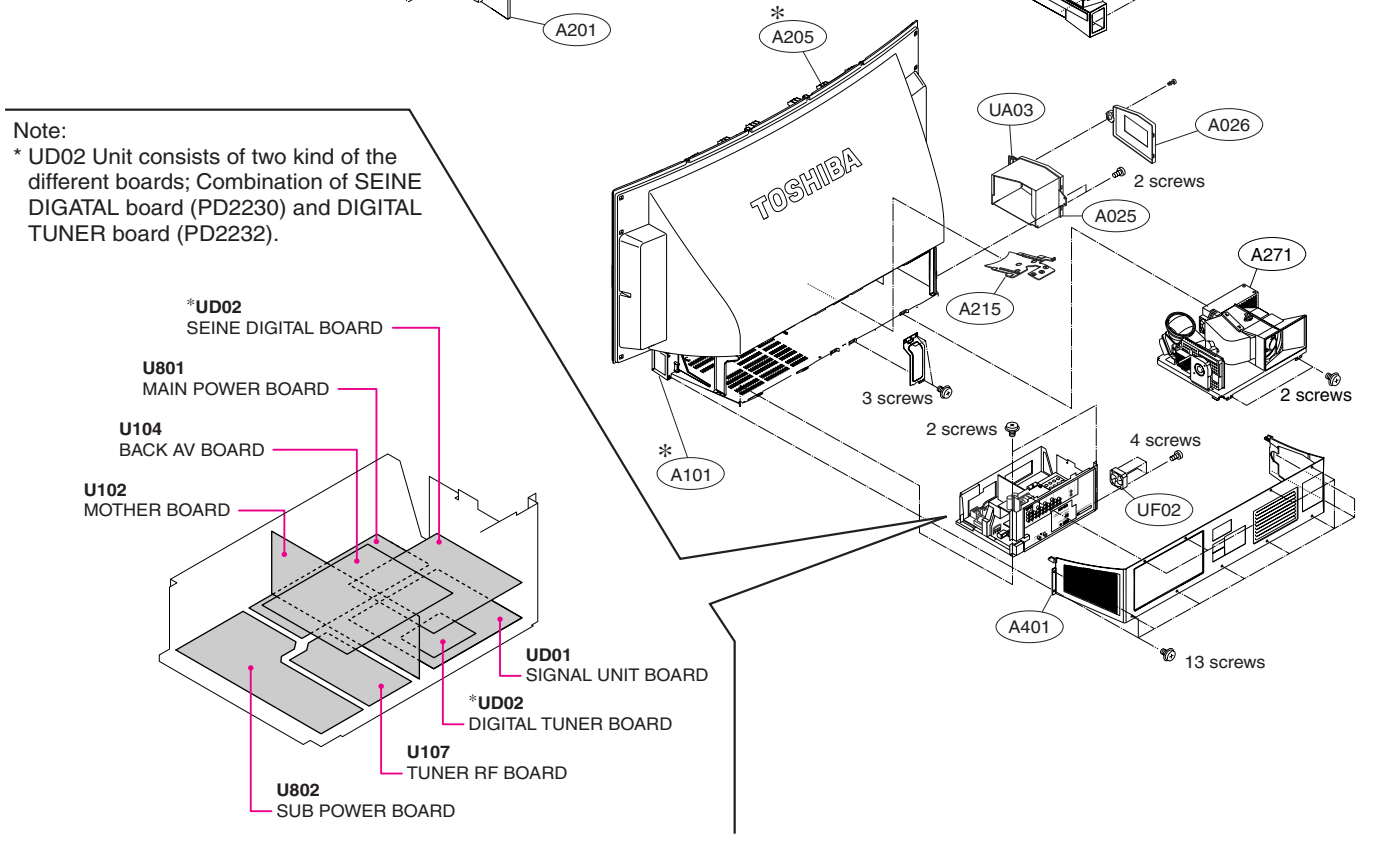


8. LIGHT ENGINE UNIT

Location No.	Parts No.	Description
⚠ A271	23405476	OPTICAL ENGINE, LV-672 TB 0D (Incl. E998Z, SK01-SK04, SK06,SK08,SK09)
E998Z	23311153	EXCHANGE LAMP, PJ-D95-LMP
SK01	23587525	SERVICE KIT, LAMP FAN
SK02	23587526	SERVICE KIT, DMD FAN
SK03	23587527	SERVICE KIT, BALLAST FAN
SK04	23587528	SERVICE KIT, THERMOSTAT
SK06	23587536	SERVICE KIT, B TO F CABLE
SK08	23587538	SERVICE KIT, S TO F CABLE
SK09	23587539	SERVICE KIT, FAN TRANSFER CABLE

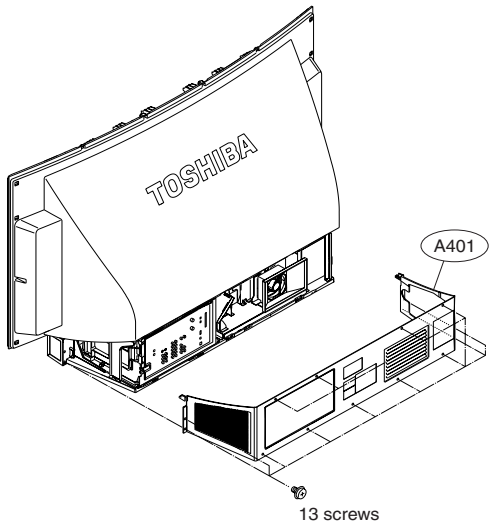
EXPLODED VIEW



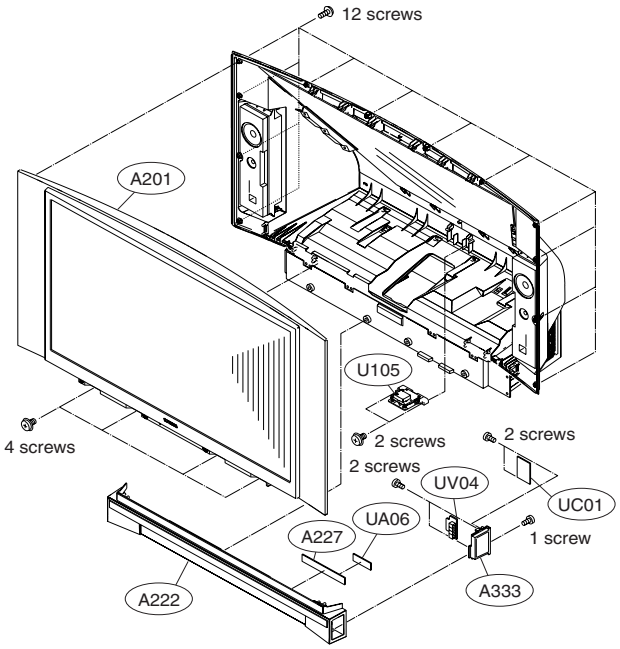


MECHANICAL DISASSEMBLY

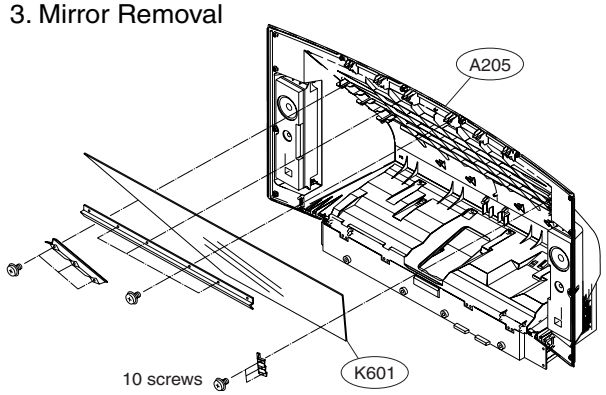
1. Rear Cover Removal



2. Touchpad & Bezel Ass'y Removal

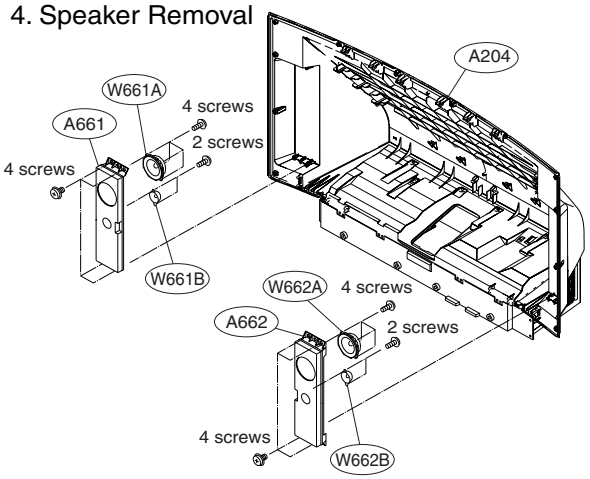


3. Mirror Removal

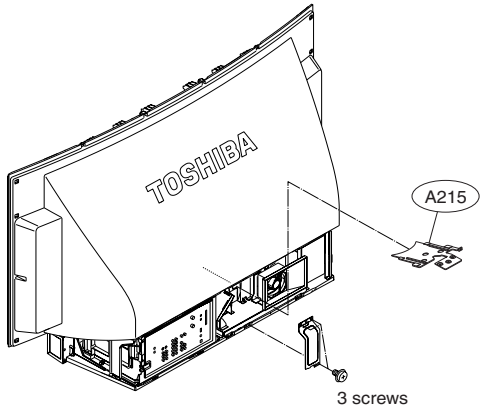


Note; A205 includes A204, A661, A662, W661A, W661B, W662A and W662B.

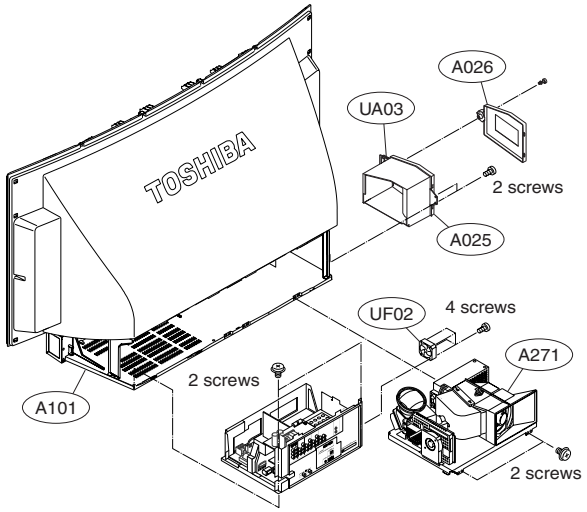
4. Speaker Removal



5. Bracket Removal



6. Optical Engine Removal



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

The PC board assembly with ∗ mark is no longer available after the end of the production.

Model : 62HM95

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C001	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C002	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C003	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C004	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C005	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C006	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C007	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C008	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C009	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C010	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C011	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C012	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C013	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C014	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C015	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C016	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C017	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C018	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C019	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C020	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C021	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C022	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C023	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C024	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C025	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C026	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C027	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C028	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C029	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C030	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C031	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C032	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C033	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C034	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C035	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C036	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C037	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C038	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C039	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C040	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C041	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C042	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C043	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C044	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C045	76100104	CERAMIC CHIP, 25V F 0.1UF Z

Location No.	Parts No.	Description
C046	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C047	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C048	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C049	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C050	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C051	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C102	76665221	ELECTROLYTIC, 10V 220UF M 3A
C103	76109102	CERAMIC CHIP, 50V B 1000PF K
C104	76073084	ELECTROLYTIC, 50V 4.7UF M 3A
C120	76092730	CERAMIC CHIP, 16V B 0.1UF K
C151	76109102	CERAMIC CHIP, 50V B 1000PF K
C152	76109102	CERAMIC CHIP, 50V B 1000PF K
C161	76109102	CERAMIC CHIP, 50V B 1000PF K
C162	76105101	CERAMIC CHIP, 50V CH 100PF J
C164	76092730	CERAMIC CHIP, 16V B 0.1UF K
C601	76109391	CERAMIC CHIP, 50V B 390PF K
C602	76109391	CERAMIC CHIP, 50V B 390PF K
C603	76797100	ELECTROLYTIC, 50V 10UF M
C604	76797100	ELECTROLYTIC, 50V 10UF M
C605	76073084	ELECTROLYTIC, 50V 4.7UF M 3A
C606	76073084	ELECTROLYTIC, 50V 4.7UF M 3A
C607	76073052	ELECTROLYTIC, 25V 47UF M 3A
C608	76073052	ELECTROLYTIC, 25V 47UF M 3A
C609	76073068	ELECTROLYTIC, 35V 100UF M 3A
C610	76073086	ELECTROLYTIC, 50V 10UF M 3A
C612	76073039	ELECTROLYTIC, 16V 220UF M 3A
C613	76503042	PLASTIC FILM, 63V 0.12UF J
C614	76503042	PLASTIC FILM, 63V 0.12UF J
C615	76073095	ELECTROLYTIC, 50V 2200UF M 3A
C616	76073095	ELECTROLYTIC, 50V 2200UF M 3A
C661	76766479	ELECTROLYTIC, 50V 4.7UF M
C662	76797100	ELECTROLYTIC, 50V 10UF M
C663	76797100	ELECTROLYTIC, 50V 10UF M
C664	76108560	CERAMIC CHIP, 50V SL 56PF J
C665	76567103	PLASTIC FILM, 50V 0.01UF J
C666	76766479	ELECTROLYTIC, 50V 4.7UF M
C667	76794100	ELECTROLYTIC, 16V 10UF M
C668	76108560	CERAMIC CHIP, 50V SL 56PF J
C680	76073094	ELECTROLYTIC, 50V 1000UF M 3A
C681	76109103	CERAMIC CHIP, 50V B 0.01UF K
C687	76796101	ELECTROLYTIC, 35V 100UF M
C688	76795470	ELECTROLYTIC, 25V 47UF M
⚠ C801	76503004	PLASTIC FILM, AC275V 0.47UF M
⚠ C803	76503002	PLASTIC FILM, AC275V 0.22UF M
C805	76092281	CERAMIC DISC, AC250V E 4700PF
C808	76095634	PLASTIC FILM, 630V 0.01UF H

Location No.	Parts No.	Description
C809	76086067	CHEMICON 200V 102M LGQ2D102MESHTL
C810	76086067	CHEMICON 200V 102M LGQ2D102MESHTL
⚠ C811	76092567	CERAMIC DISC, AC250V E 1000PF M
⚠ C812	76092567	CERAMIC DISC, AC250V E 1000PF M
C815	76285104	CERAMIC CHIP, 50V B 0.1UF K
C816	76669470	ELECTROLYTIC, 50V 47UF M 3A
C817	76092179	CERAMIC CHIP, 25V B 0.22UF K
C818	76285104	CERAMIC CHIP, 50V B 0.1UF K
C819	76214102	CERAMIC DISC, 500V B 1000PF K
C820	76092463	CERAMIC CHIP, 16V B 0.22UF K
C821	76092343	CERAMIC DISC, 2KV 680PF K
C822	76092344	CERAMIC DISC, 2KV 820PF K
C823	76092337	CERAMIC DISC, 2KV 220PF K
C824	76109472	CERAMIC CHIP, 50V B 4700PF K
⚠ C825	76503117	PLASTIC FILM CQ92 T 800V 33000PF J
C826	76092338	CERAMIC DISC, 2KV R 270PF K
C827	76503053	PLASTIC FILM, 63V 1UF J
C828	76214103	CERAMIC DISC, 500V B 0.01UF K
C829	76678229	ELECTROLYTIC, 200V 2.2UF M 3A
C840	76092730	CERAMIC CHIP, 16V B 0.1UF K
C855	76073157	ELECTROLYTIC, 16V 1500UF M 3A
C857	76073172	ELECTROLYTIC, 25V 1000UF M 3A
C860	76073205	ELECTROLYTIC CE04P 50V 470UF M 3A
C870	76092178	CERAMIC CHIP, 25V B 0.1UF K
C898	76092178	CERAMIC CHIP, 25V B 0.1UF K
⚠ C899	76092567	CERAMIC DISC, AC250V E 1000PF M
C8905	76666221	ELECTROLYTIC, 16V 220UF M
C8910	76092738	CERAMIC CHIP, 25V B 0.47UF K
C8911	76073151	ELECTROLYTIC, 16V 120UF M 3A
C8920	76073053	ELECTROLYTIC, 25V 100UF M 3A
C8921	76092738	CERAMIC CHIP, 25V B 0.47UF K
C8922	76667470	ELECTROLYTIC, 25V 47UF M 3A
C8923	76666331	ELECTROLYTIC, 16V 330UF M
C8924	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8931	76092738	CERAMIC CHIP, 25V B 0.47UF K
C8932	76667470	ELECTROLYTIC, 25V 47UF M 3A
C8933	76666331	ELECTROLYTIC, 16V 330UF M
C8934	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8960	76092616	CERAMIC CHIP, 16V B 0.33UF K
C8961	76092730	CERAMIC CHIP, 16V B 0.1UF K
CA81	76109333	CERAMIC CHIP, 25V B 0.033UF K
CA82	76109123	CERAMIC CHIP, 50V B 0.012UF K
CA83	76109103	CERAMIC CHIP, 50V B 0.01UF K
CA84	76109333	CERAMIC CHIP, 25V B 0.033UF K
CA85	76109273	CERAMIC CHIP, 25V B 0.027UF K
CA86	76109123	CERAMIC CHIP, 50V B 0.012UF K
CA87	76109123	CERAMIC CHIP, 50V B 0.012UF K
CA88	76109333	CERAMIC CHIP, 25V B 0.033UF K
CA91	76092730	CERAMIC CHIP, 16V B 0.1UF K
CA92	76092730	CERAMIC CHIP, 16V B 0.1UF K
CA93	76619040	ELECTROLYTIC CHIP, 16V 10UF M 3A
CA94	76619040	ELECTROLYTIC CHIP, 16V 10UF M 3A
CA95	76092730	CERAMIC CHIP, 16V B 0.1UF K
CA96	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB01	76794470	ELECTROLYTIC, 16V 47UF M
CB51	76590103	PLASTIC FILM, 50V 0.01UF J
CB52	76794470	ELECTROLYTIC, 16V 47UF M
CB53	76503041	PLASTIC FILM , 63V 0.1UF J
CB54	76436221	CERAMIC DISC, 50V SL 220PF J
CB55	76797010	ELECTROLYTIC, 50V 1UF M
CB56	76794470	ELECTROLYTIC, 16V 47UF M
CB58	76794470	ELECTROLYTIC, 16V 47UF M
CB59	76590103	PLASTIC FILM, 50V 0.01UF J
CB60	76794100	ELECTROLYTIC, 16V 10UF M
CB61	76503041	PLASTIC FILM , 63V 0.1UF J
CB81	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB82	76567474	PLASTIC FILM, 50V 0.47UF J
CB503	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB504	76794100	ELECTROLYTIC, 16V 10UF M
CB505	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB506	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB507	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB508	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB509	76794101	ELECTROLYTIC, 16V 100UF M
CB510	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CC01	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC02	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC03	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC04	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76619100	ELECTROLYTIC CHIP, 16V 10UF M @UC01
CC05	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC06	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC07	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76619100	ELECTROLYTIC CHIP, 16V 10UF M @UC01
CC08	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC09	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC10	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC11	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76619100	ELECTROLYTIC CHIP, 16V 10UF M @UC01
CC12	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092538	CERAMIC CHIP, 10V F 1UF Z @UC01
CC13	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC14	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC15	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76619100	ELECTROLYTIC CHIP, 16V 10UF M @UC01
CC16	76109102	CERAMIC CHIP, 50V B 1000PF K @U104
	76092730	CERAMIC CHIP, 16V B 0.1UF K @UC01
CC17	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC18	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC19	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC20	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC21	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC22	76092538	CERAMIC CHIP, 10V F 1UF Z
CC24	76092538	CERAMIC CHIP, 10V F 1UF Z
CC25	76092538	CERAMIC CHIP, 10V F 1UF Z
CC26	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC27	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC28	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CC30	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC31	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC33	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC34	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC36	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC40	76092538	CERAMIC CHIP, 10V F 1UF Z
CC41	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC42	76109103	CERAMIC CHIP, 50V B 0.01UF K
⚠ CE01	76503002	PLASTIC FILM, AC275V 0.22UF M
CE04	76092281	CERAMIC DISC, AC250V E 4700PF
CE05	76092281	CERAMIC DISC, AC250V E 4700PF
⚠ CE08	76503253	PLASTIC FILM, 1250VH 0.01UF H
CE09	76092337	CERAMIC DISC, 2KV 220PF K
CE10	76073217	ELECTROLYTIC, 200V 560UF M
⚠ CE11	76092565	CERAMIC DISC, AC250V B 470PF K
⚠ CE12	76092565	CERAMIC DISC, AC250V B 470PF K
⚠ CE13	76092565	CERAMIC DISC, AC250V B 470PF K
CE19	76073019	ELECTROLYTIC, 10V 470UF M 3A
CE30	76073183	ELECTROLYTIC CE04P 35V 220UF M 3A
CE31	76092730	CERAMIC CHIP, 16V B 0.1UF K
CE32	76073153	ELECTROLYTIC, 16V 470UF M 3A
CE33	76092730	CERAMIC CHIP, 16V B 0.1UF K
CE34	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE35	76073168	ELECTROLYTIC CE04P 25V 330UF M 3A
CE36	76092730	CERAMIC CHIP, 16V B 0.1UF K
CE37	76073153	ELECTROLYTIC, 16V 470UF M 3A
CE38	76092730	CERAMIC CHIP, 16V B 0.1UF K
CE39	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE40	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE41	76092616	CERAMIC CHIP, 16V B 0.33UF K
CE42	76073137	ELECTROLYTIC CE04P 10V 100UF M 3A
CE48	76073168	ELECTROLYTIC CE04P 25V 330UF M 3A
CE49	76073183	ELECTROLYTIC CE04P 35V 220UF M 3A
CE50	76667470	ELECTROLYTIC, 25V 47UF M 3A

Location No.	Parts No.	Description
CE51	76092738	CERAMIC CHIP, 25V B 0.47UF K
CE52	76073151	ELECTROLYTIC, 16V 120UF M 3A
CE53	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE54	76092616	CERAMIC CHIP, 16V B 0.33UF K
CE55	76073137	ELECTROLYTIC CE04P 10V 100UF M 3A
CE57	76667470	ELECTROLYTIC, 25V 47UF M 3A
CE58	76092738	CERAMIC CHIP, 25V B 0.47UF K
CE59	76073151	ELECTROLYTIC, 16V 120UF M 3A
CE61	76092339	CERAMIC DISC, 2KV 330PF K
CE62	76503049	PLASTIC FILM, 63V 0.47UF J
CE63	76669339	ELECTROLYTIC, 50V 3.3UF M
CE64	76503041	PLASTIC FILM , 63V 0.1UF J
CE65	76214221	CERAMIC DISC, 500V B 220PF K
CE68	76073180	ELECTROLYTIC CE04P 35V 33UF M 3A
CE72	76591471	PLASTIC FILM, 50V 470PF J
CE81	76214331	CERAMIC DISC, 500V B 330PF K
CE82	76214331	CERAMIC DISC, 500V B 330PF K
CE83	76214331	CERAMIC DISC, 500V B 330PF K
CE85	76073159	ELECTROLYTIC CE04P 16V 2700UF M 3A
CE86	76073174	ELECTROLYTIC, 25V 1500UF M 3A
CE87	76073189	ELECTROLYTIC, 35V 1000UF M 3A
CE88	76676470	ELECTROLYTIC, 100V 47UF M 3A
CE89	76503041	PLASTIC FILM , 63V 0.1UF J
CE90	76073152	ELECTROLYTIC, 16V 330UF M 3A
CE91	76214102	CERAMIC DISC, 500V B 1000PF K
CE92	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE93	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE94	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE95	76109103	CERAMIC CHIP, 50V B 0.01UF K
CF09	76073154	ELECTROLYTIC CE04P 16V 680UF M 3A
CF10	76073154	ELECTROLYTIC CE04P 16V 680UF M 3A
CF11	76092730	CERAMIC CHIP, 16V B 0.1UF K
CF12	76073154	ELECTROLYTIC CE04P 16V 680UF M 3A
CF13	76105471	CERAMIC CHIP, 50V CH 470PF J
CF14	76092731	CERAMIC CHIP, 16V B 1UF K
CF15	76109332	CERAMIC CHIP, 50V B 3300PF K
CF16	76109472	CERAMIC CHIP, 50V B 4700PF K
CF17	76815473	CERAMIC CHIP, 50V B 0.047UF K
CF18	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CF19	76073126	ELECTROLYTIC CE04P 6.3V 330UF M 3A
CF20	76092789	CERAMIC CHIP, 6.3V B 1UF K
CF21	76092789	CERAMIC CHIP, 6.3V B 1UF K
CF22	76073126	ELECTROLYTIC CE04P 6.3V 330UF M 3A
CF23	76092789	CERAMIC CHIP, 6.3V B 1UF K
CF24	76092789	CERAMIC CHIP, 6.3V B 1UF K
CF25	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CF26	76109103	CERAMIC CHIP, 50V B 0.01UF K
CF27	76109102	CERAMIC CHIP, 50V B 1000PF K
CF28	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CF29	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CF90	76667101	ELECTROLYTIC, 25V 100UF M
CF91	76073168	ELECTROLYTIC CE04P 25V 330UF M 3A
CF92	76092730	CERAMIC CHIP, 16V B 0.1UF K
CS01	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS02	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS03	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS04	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS05	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS06	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS07	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS08	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS09	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS10	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS11	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS12	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS13	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS14	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS15	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS16	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS17	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS18	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS19	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS20	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS21	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS22	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CS23	76109103	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
CS24	76794101	ELECTROLYTIC, 16V 100UF M
CS25	76794220	ELECTROLYTIC, 16V 22UF M
CS31	76794100	ELECTROLYTIC, 16V 10UF M
CS32	76794100	ELECTROLYTIC, 16V 10UF M
CS33	76797229	ELECTROLYTIC, 50V 2.2UF M
CV13	76794100	ELECTROLYTIC, 16V 10UF M
CV14	76232103	CERAMIC DISC, 50V F 0.01UF Z
CV15	76232103	CERAMIC DISC, 50V F 0.01UF Z
CV40	76793101	ELECTROLYTIC, 10V 100UF M
CV41	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV43	76105330	CERAMIC CHIP, 50V CH 33PF J
CV44	76105270	CERAMIC CHIP, 50V CH 27PF J
CV45	76105220	CERAMIC CHIP, 50V CH 22PF J
CV61	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CV62	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CV63	76794100	ELECTROLYTIC, 16V 10UF M
CV64	76794471	ELECTROLYTIC, 16V 470UF M
CV65	76794101	ELECTROLYTIC, 16V 100UF M
CV66	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV67	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CV71	76794100	ELECTROLYTIC, 16V 10UF M
CV72	76794100	ELECTROLYTIC, 16V 10UF M
CV74	76794100	ELECTROLYTIC, 16V 10UF M
CV75	76794100	ELECTROLYTIC, 16V 10UF M
CV76	76794100	ELECTROLYTIC, 16V 10UF M
CV77	76794100	ELECTROLYTIC, 16V 10UF M
CV78	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV80	76793471	ELECTROLYTIC, 10V 470UF M
CV87	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV200	76794100	ELECTROLYTIC, 16V 10UF M
CV201	76794100	ELECTROLYTIC, 16V 10UF M
CV202	76085981	ELECTROLYTIC, NP, 16V 10UF M 11L
CV203	76109103	CERAMIC CHIP, 50V B 0.01UF K
RESISTORS		
R103	76011101	CHIP, 1/20W 100 OHM J
R104	76011103	CHIP, 1/20W 10K OHM J
R105	76011273	CHIP, 1/20W 27K OHM J
R107	76000445	CHIP JUMPER, 1608TYPE
R108	76000445	CHIP JUMPER, 1608TYPE
R110	76011682	CHIP, 1/20W 6.8K OHM J
R114	76000445	CHIP JUMPER, 1608TYPE
R161	76011102	CHIP, 1/20W 1K OHM J
R165	76011392	CHIP, 1/20W 3.9K OHM J
R166	76011472	CHIP, 1/20W 4.7K OHM J
R167	76011101	CHIP, 1/20W 100 OHM J
R168	76011101	CHIP, 1/20W 100 OHM J
R601	76011272	CHIP, 1/20W 2.7K OHM J
R602	76011272	CHIP, 1/20W 2.7K OHM J
R603	76011152	CHIP, 1/20W 1.5K OHM J
R604	76011152	CHIP, 1/20W 1.5K OHM J
R609	76366229	CARBON FILM, 1/6W 2.2 OHM J
R610	76366229	CARBON FILM, 1/6W 2.2 OHM J
R611	76011103	CHIP, 1/20W 10K OHM J
R612	76011222	CHIP, 1/20W 2.2K OHM J
R613	76011223	CHIP, 1/20W 22K OHM J
R614	76011223	CHIP, 1/20W 22K OHM J
R661	76011102	CHIP, 1/20W 1K OHM J
R662	76011562	CHIP, 1/20W 5.6K OHM J
R663	76011822	CHIP, 1/20W 8.2K OHM J
R665	76011223	CHIP, 1/20W 22K OHM J
R666	76011473	CHIP, 1/20W 47K OHM J
R667	76011223	CHIP, 1/20W 22K OHM J
R668	76011473	CHIP, 1/20W 47K OHM J
R671	76011102	CHIP, 1/20W 1K OHM J
R672	76011562	CHIP, 1/20W 5.6K OHM J
R673	76011822	CHIP, 1/20W 8.2K OHM J
R674	76011472	CHIP, 1/20W 4.7K OHM J
R676	76011104	CHIP, 1/20W 100K OHM J
R677	76011104	CHIP, 1/20W 100K OHM J
R683	76011223	CHIP, 1/20W 22K OHM J
R684	76011223	CHIP, 1/20W 22K OHM J
R687	76011103	CHIP, 1/20W 10K OHM J
R688	76011224	CHIP, 1/20W 220K OHM J
R697	76553152	OXIDE METAL FILM, 1W 1.5K OHM J
R698	76011103	CHIP, 1/20W 10K OHM J

Location No.	Parts No.	Description
R699	76011103	CHIP, 1/20W 10K OHM J
R803	76011333	CHIP, 1/20W 33K OHM J
R805	76120001	CEMENT RES 141C 2.1W 1R8 K
R807	76011223	CHIP, 1/20W 22K OHM J
R808	76552470	OXIDE METAL FILM, 1/2W 47 OHM J
R809	76321689	OXIDE METAL FILM, 1/2W 6.8 OHM J
R810	76382150	OXIDE METAL FILM, 1W 15 OHM J
R811	76552820	OXIDE METAL FILM, 1/2W 82 OHM J
R812	76552390	OXIDE METAL FILM, 1/2W 39 OHM J
R813	76366150	CARBON FILM, 1/6W 15 OHM J
R814	76871473	CHIP, 1/8W 47K OHM J
R815	76552100	OXIDE METAL FILM, 1/2W 10 OHM J
R816	76011102	CHIP, 1/20W 1K OHM J
R817	76871473	CHIP, 1/8W 47K OHM J
R818	76871473	CHIP, 1/8W 47K OHM J
R819	76871473	CHIP, 1/8W 47K OHM J
R820	76871473	CHIP, 1/8W 47K OHM J
R821	76871105	CHIP, 1/8W 1M OHM J
R822	76871105	CHIP, 1/8W 1M OHM J
R823	76871105	CHIP, 1/8W 1M OHM J
R824	76871105	CHIP, 1/8W 1M OHM J
R825	76011104	CHIP, 1/20W 100K OHM J
R826	76011473	CHIP, 1/20W 47K OHM J
R827	76383473	OXIDE METAL FILM, 2W 47K OHM J
R828	76011104	CHIP, 1/20W 100K OHM J
R829	76011822	CHIP, 1/20W 8.2K OHM J
R830	76011822	CHIP, 1/20W 8.2K OHM J
R840	76552470	OXIDE METAL FILM, 1/2W 47 OHM J
R841	76011103	CHIP, 1/20W 10K OHM J
R843	76011333	CHIP, 1/20W 33K OHM J
R844	76011103	CHIP, 1/20W 10K OHM J
R845	76011332	CHIP, 1/20W 3.3K OHM J
R846	76011103	CHIP, 1/20W 10K OHM J
R847	76011153	CHIP, 1/2OW 15K OHM J
R848	76011332	CHIP, 1/20W 3.3K OHM J
R849	76011103	CHIP, 1/20W 10K OHM J
R850	76011472	CHIP, 1/20W 4.7K OHM J
R851	76011333	CHIP, 1/20W 33K OHM J
R852	76011102	CHIP, 1/20W 1K OHM J
R871	76998332	CHIP, 1/16W 3.3K OHM
R872	76998103	CHIP, 1/16W 10K OHM
R873	76011100	CHIP, 1/20W 10 OHM J
R874	76011102	CHIP, 1/20W 1K OHM J
R875	76011471	CHIP, 1/20W 470 OHM J
R876	76011102	CHIP, 1/20W 1K OHM J
R877	76011471	CHIP, 1/20W 470 OHM J
R880	76552102	OXIDE METAL FILM, 1/2W 1K OHM J
⚠ R899	76005014	METAL FILM, 1W 8.2M OHM J
R8910	76998123	CHIP, 1/16W 12K OHM
R8911	76998391	CHIP, 1/16W 390 OHM
R8912	76998102	CHIP, 1/16W 1K OHM
R8921	76011123	CHIP, 1/20W 12K OHM J
R8922	76011182	CHIP, 1/20W 1.8K OHM J
R8923	76011472	CHIP, 1/20W 4.7K OHM J
R8924	76011103	CHIP, 1/20W 10K OHM J
R8931	76011123	CHIP, 1/20W 12K OHM J
R8932	76011182	CHIP, 1/20W 1.8K OHM J
R8933	76011472	CHIP, 1/20W 4.7K OHM J
R8934	76011103	CHIP, 1/20W 10K OHM J
R8950	76011821	CHIP, 1/20W 820 OHM J
R8951	76011473	CHIP, 1/20W 47K OHM J
R8952	76011102	CHIP, 1/20W 1K OHM J
R8953	76011333	CHIP, 1/20W 33K OHM J
R8954	76011333	CHIP, 1/20W 33K OHM J
R8955	76011472	CHIP, 1/20W 4.7K OHM J
R8956	76011681	CHIP, 1/20W 680 OHM J
R8960	76011334	CHIP, 1/20W 330K OHM J
R8961	76011223	CHIP, 1/20W 22K OHM J
R8962	76011223	CHIP, 1/20W 22K OHM J
R8963	76011102	CHIP, 1/20W 1K OHM J
R8964	76011103	CHIP, 1/20W 10K OHM J
RA44	76011105	CHIP, 1/20W 1M OHM J
RA48	76011105	CHIP, 1/20W 1M OHM J
RA51	76011105	CHIP, 1/20W 1M OHM J
RA53	76011105	CHIP, 1/20W 1M OHM J
RA55	76011105	CHIP, 1/20W 1M OHM J

Location No.	Parts No.	Description
RA57	76011105	CHIP, 1/20W 1M OHM J
RA61	76011222	CHIP, 1/20W 2.2K OHM J
RA62	76011222	CHIP, 1/20W 2.2K OHM J
RA63	76011222	CHIP, 1/20W 2.2K OHM J
RA64	76011222	CHIP, 1/20W 2.2K OHM J
RA65	76011222	CHIP, 1/20W 2.2K OHM J
RA66	76011222	CHIP, 1/20W 2.2K OHM J
RA67	76011222	CHIP, 1/20W 2.2K OHM J
RA68	76011222	CHIP, 1/20W 2.2K OHM J
RA71	76011103	CHIP, 1/20W 10K OHM J
RA72	76011223	CHIP, 1/20W 22K OHM J
RA73	76011683	CHIP, 1/20W 68K OHM J
RA75	76011103	CHIP, 1/20W 10K OHM J
RA76	76011223	CHIP, 1/20W 22K OHM J
RA81	76011104	CHIP, 1/20W 100K OHM J
RA82	76011104	CHIP, 1/20W 100K OHM J
RA83	76011104	CHIP, 1/20W 100K OHM J
RA84	76011104	CHIP, 1/20W 100K OHM J
RA85	76011104	CHIP, 1/20W 100K OHM J
RA86	76011104	CHIP, 1/20W 100K OHM J
RA87	76011104	CHIP, 1/20W 100K OHM J
RA88	76011104	CHIP, 1/20W 100K OHM J
RA91	76011623	CHIP, 1/20W 62K OHM J
RA94	76000445	CHIP JUMPER, 1608TYPE
RA95	76011623	CHIP, 1/20W 62K OHM J
RA98	76000445	CHIP JUMPER, 1608TYPE
RB15	76366471	CARBON FILM, 1/6W 470 OHM J
RB19	76366470	CARBON FILM, 1/6W 47 OHM J
RB51	76366224	CARBON FILM, 1/6W 220K OHM J
RB52	76366123	CARBON FILM, 1/6W 12K OHM J
RB53	76366123	CARBON FILM, 1/6W 12K OHM J
RB54	76366123	CARBON FILM, 1/6W 12K OHM J
RB55	76366224	CARBON FILM, 1/6W 220K OHM J
RB56	76366151	CARBON FILM, 1/6W 150 OHM J
RB57	76366103	CARBON FILM, 1/6W 10K OHM J
RB58	76366103	CARBON FILM, 1/6W 10K OHM J
RB59	76366122	CARBON FILM, 1/6W 1.2K OHM J
RB60	76366224	CARBON FILM, 1/6W 220K OHM J
RB61	76366100	CARBON FILM, 1/6W 10 OHM J
RB62	76366272	CARBON FILM, 1/6W 2.7K OHM J
RB63	76366271	CARBON FILM, 1/6W 270 OHM J
RB67	76366221	CARBON FILM, 1/6W 220 OHM J
RB69	76366272	CARBON FILM, 1/6W 2.7K OHM J
RB70	76366331	CARBON FILM, 1/6W 330 OHM J
RB81	76011473	CHIP, 1/20W 47K OHM J @U104
	76011222	CHIP, 1/20W 2.2K OHM J @UA06
RB82	76011471	CHIP, 1/20W 470 OHM J
RB83	76011102	CHIP, 1/20W 1K OHM J
RB84	76011473	CHIP, 1/20W 47K OHM J
RB92	76011473	CHIP, 1/20W 47K OHM J
RB93	76011102	CHIP, 1/20W 1K OHM J
RB502	76011332	CHIP, 1/20W 3.3K OHM J
RB503	76011332	CHIP, 1/20W 3.3K OHM J
RB504	76366104	CARBON FILM, 1/6W 100K OHM J
RB505	76366101	CARBON FILM, 1/6W 100 OHM J
RB506	76366390	CARBON FILM, 1/6W 39 OHM J
RB516	76011472	CHIP, 1/20W 4.7K OHM J
RB517	76011472	CHIP, 1/20W 4.7K OHM J
RB518	76011101	CHIP, 1/20W 100 OHM J
RB519	76011472	CHIP, 1/20W 4.7K OHM J
RB520	76011472	CHIP, 1/20W 4.7K OHM J
RB521	76011472	CHIP, 1/20W 4.7K OHM J
RB522	76011472	CHIP, 1/20W 4.7K OHM J
RB523	76011472	CHIP, 1/20W 4.7K OHM J
RB524	76011472	CHIP, 1/20W 4.7K OHM J
RB525	76011102	CHIP, 1/20W 1K OHM J
RB526	76011103	CHIP, 1/20W 10K OHM J
RB527	76011103	CHIP, 1/20W 10K OHM J
RB528	76011472	CHIP, 1/20W 4.7K OHM J
RB529	76011472	CHIP, 1/20W 4.7K OHM J
RB554	76011101	CHIP, 1/20W 100 OHM J
RB555	76011103	CHIP, 1/20W 10K OHM J
RB556	76011101	CHIP, 1/20W 100 OHM J
RB557	76011103	CHIP, 1/20W 10K OHM J
RB558	76366223	CARBON FILM, 1/6W 22K OHM J
RB559	76366223	CARBON FILM, 1/6W 22K OHM J

Location No.	Parts No.	Description
RB560	76011101	CHIP, 1/20W 100 OHM J
RB561	76011472	CHIP, 1/20W 4.7K OHM J
RB562	76366104	CARBON FILM, 1/6W 100K OHM J
RB563	76366390	CARBON FILM, 1/6W 39 OHM J
RB565	76366101	CARBON FILM, 1/6W 100 OHM J
RB566	76011102	CHIP, 1/20W 1K OHM J
RB567	76366223	CARBON FILM, 1/6W 22K OHM J
RB576	76011153	CHIP, 1/2OW 15K OHM J
RC01	76011101	CHIP, 1/20W 100 OHM J @U104
	76011223	CHIP, 1/20W 22K OHM J @UC01
RC02	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC03	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC04	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC05	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC06	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC07	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC08	76011101	CHIP, 1/20W 100 OHM J @U104
	76011220	CHIP, 1/20W 22 OHM J @UC01
RC09	76011101	CHIP, 1/20W 100 OHM J @U104
	76011270	CHIP, 1/20W 27 OHM J @UC01
RC10	76011101	CHIP, 1/20W 100 OHM J @U104
	76011270	CHIP, 1/20W 27 OHM J @UC01
RC11	76011101	CHIP, 1/20W 100 OHM J @U104
	76011334	CHIP, 1/20W 330K OHM J @UC01
RC12	76011101	CHIP, 1/20W 100 OHM J @U104
	76011103	CHIP, 1/20W 10K OHM J @UC01
RC13	76011101	CHIP, 1/20W 100 OHM J @U104
	76000824	CHIP JUMPER, 2125TYPE @UC01
RC14	76011101	CHIP, 1/20W 100 OHM J @U104
	76000824	CHIP JUMPER, 2125TYPE @UC01
RC15	76000824	CHIP JUMPER, 2125TYPE
RC16	76011103	CHIP, 1/20W 10K OHM J
RC17	76000824	CHIP JUMPER, 2125TYPE
RC18	76000824	CHIP JUMPER, 2125TYPE
RC19	76000824	CHIP JUMPER, 2125TYPE
RC20	76000824	CHIP JUMPER, 2125TYPE
RC21	76011103	CHIP, 1/20W 10K OHM J
RC22	76011103	CHIP, 1/20W 10K OHM J
RC23	76011103	CHIP, 1/20W 10K OHM J
RC24	76011103	CHIP, 1/20W 10K OHM J
RC25	76011103	CHIP, 1/20W 10K OHM J
RC26	76011103	CHIP, 1/20W 10K OHM J
RC27	76011103	CHIP, 1/20W 10K OHM J
RC28	76011103	CHIP, 1/20W 10K OHM J
RC32	76011331	CHIP, 1/20W 330 OHM J
RC33	76011103	CHIP, 1/20W 10K OHM J
RC34	76011331	CHIP, 1/20W 330 OHM J
RC35	76011103	CHIP, 1/20W 10K OHM J
RC36	76011331	CHIP, 1/20W 330 OHM J
RC37	76011103	CHIP, 1/20W 10K OHM J
RC38	76011331	CHIP, 1/20W 330 OHM J
RC39	76011103	CHIP, 1/20W 10K OHM J
RC40	76011102	CHIP, 1/20W 1K OHM J
RC41	76011105	CHIP, 1/20W 1M OHM J
RC49	76011103	CHIP, 1/20W 10K OHM J
RC50	76011123	CHIP, 1/20W 12K OHM J
RC51	76011103	CHIP, 1/20W 10K OHM J
RC52	76011103	CHIP, 1/20W 10K OHM J
RC53	76011103	CHIP, 1/20W 10K OHM J
RC54	76011220	CHIP, 1/20W 22 OHM J
RC55	76011103	CHIP, 1/20W 10K OHM J
RC61	76011564	CHIP, 1/20W 560K OHM J
RC62	76011103	CHIP, 1/20W 10K OHM J
RE08	76554683	OXIDE RES 2W 68K J
RE14	76011472	CHIP, 1/20W 4.7K OHM J
RE15	76011102	CHIP, 1/20W 1K OHM J
RE16	76382221	OXIDE METAL FILM, 1W 220 OHM J
RE17	76011103	CHIP, 1/20W 10K OHM J
RE19	76011183	CHIP, 1/20W 18K OHM J
RE20	76011333	CHIP, 1/20W 33K OHM J

Location No.	Parts No.	Description
RE21	76011103	CHIP, 1/20W 10K OHM J
RE22	76011103	CHIP, 1/20W 10K OHM J
RE23	76011473	CHIP, 1/20W 47K OHM J
RE24	76011103	CHIP, 1/20W 10K OHM J
RE25	76011333	CHIP, 1/20W 33K OHM J
RE26	76011103	CHIP, 1/20W 10K OHM J
RE27	76011103	CHIP, 1/20W 10K OHM J
RE28	76011473	CHIP, 1/20W 47K OHM J
RE29	76011103	CHIP, 1/20W 10K OHM J
RE30	76998102	CHIP, 1/16W 1K OHM
RE31	76998152	CHIP, 1/16W 1.5K OHM D
RE32	76998181	CHIP, 1/16W 180 OHM
RE33	76011102	CHIP, 1/20W 1K OHM J
RE34	76011473	CHIP, 1/20W 47K OHM J
RE35	76011103	CHIP, 1/20W 10K OHM J
RE36	76011103	CHIP, 1/20W 10K OHM J
RE37	76011333	CHIP, 1/20W 33K OHM J
RE38	76998102	CHIP, 1/16W 1K OHM
RE39	76998152	CHIP, 1/16W 1.5K OHM D
RE40	76998273	CHIP, 1/16W 27K OHM
RE41	76998823	CHIP, 1/16W 82K OHM
RE42	76011103	CHIP, 1/20W 10K OHM J
RE43	76011223	CHIP, 1/20W 22K OHM J
RE44	76011103	CHIP, 1/20W 10K OHM J
RE45	76011223	CHIP, 1/20W 22K OHM J
RE47	76998333	CHIP, 1/16W 33K OHM
RE48	76998104	CHIP, 1/16W 100K OHM D
RE49	76998102	CHIP, 1/16W 1K OHM
RE50	76998181	CHIP, 1/16W 180 OHM
RE51	76011102	CHIP, 1/20W 1K OHM J
RE52	76011333	CHIP, 1/20W 33K OHM J
RE53	76011103	CHIP, 1/20W 10K OHM J
RE54	76011103	CHIP, 1/20W 10K OHM J
RE55	76011333	CHIP, 1/20W 33K OHM J
RE56	76998153	CHIP, 1/16W 15K OHM
RE57	76998823	CHIP, 1/16W 82K OHM
RE58	76998123	CHIP, 1/16W 12K OHM
RE59	76011332	CHIP, 1/20W 3.3K OHM J
RE61	76382473	OXIDE METAL FILM, 1W 47K OHM J
RE62	76322688	OXIDE METAL FILM, 1W 0.68 OHM J
RE63	76322688	OXIDE METAL FILM, 1W 0.68 OHM J
RE64	76381221	OXIDE METAL FILM, 1/2W 220 OHM J
RE65	76366102	CARBON FILM, 1/6W 1K OHM J
RE66	76366102	CARBON FILM, 1/6W 1K OHM J
RE71	76310829	OXIDE METAL FILM, 1/2W 8.2 OHM J
RE72	76552222	OXIDE METAL FILM, 1/2W 2.2K OHM J
RE73	76366102	CARBON FILM, 1/6W 1K OHM J
RE81	76998821	CHIP, 1/16W 820 OHM
RE82	76998103	CHIP, 1/16W 10K OHM
RE83	76998682	CHIP, 1/16W 6.8K OHM D
RE84	76011471	CHIP, 1/20W 470 OHM J
RE85	76011222	CHIP, 1/20W 2.2K OHM J
RE86	76011102	CHIP, 1/20W 1K OHM J
RE89	76011223	CHIP, 1/20W 22K OHM J
RE90	76011103	CHIP, 1/20W 10K OHM J
RE91	76011333	CHIP, 1/20W 33K OHM J
RE92	76011104	CHIP, 1/20W 100K OHM J
RE93	76011223	CHIP, 1/20W 22K OHM J
RE94	76011103	CHIP, 1/20W 10K OHM J
RE95	76382222	OXIDE METAL FILM, 1W 2.2K OHM J
RE96	76011102	CHIP, 1/20W 1K OHM J
RE97	76382101	OXIDE METAL FILM, 1W 100 OHM J
RE98	76011103	CHIP, 1/20W 10K OHM J
RE99	76011472	CHIP, 1/20W 4.7K OHM J
RF07	76011122	CHIP, 1/20W 1.2K OHM J
RF08	76011153	CHIP, 1/2OW 15K OHM J
RF09	76011103	CHIP, 1/20W 10K OHM J
RF10	76998123	CHIP, 1/16W 12K OHM
RF11	76998104	CHIP, 1/16W 100K OHM D
RF12	76998473	CHIP, 1/16W 47K OHM
RF13	76011152	CHIP, 1/20W 1.5K OHM J
RF14	76011474	CHIP, 1/20W 470K OHM J
RF15	76011682	CHIP, 1/20W 6.8K OHM J
RF18	76998223	CHIP, 1/16W 22K OHM
RF19	76011471	CHIP, 1/20W 470 OHM J
RF20	76998682	CHIP, 1/16W 6.8K OHM D

Location No.	Parts No.	Description
RF21	76998683	CHIP, 1/16W 68K OHM D
RF22	76998473	CHIP, 1/16W 47K OHM
RF23	76011474	CHIP, 1/20W 470K OHM J
RF24	76998103	CHIP, 1/16W 10K OHM
RF25	76998153	CHIP, 1/16W 15K OHM
RF26	76011682	CHIP, 1/20W 6.8K OHM J
RF27	76011332	CHIP, 1/20W 3.3K OHM J
RF29	76011332	CHIP, 1/20W 3.3K OHM J
RF33	76011330	CHIP, 1/20W 33 OHM J
RF34	76011330	CHIP, 1/20W 33 OHM J
RF35	76011684	CHIP, 1/20W 680K OHM J
RF90	76382330	OXIDE METAL FILM, 1W 33 OHM J
RS01	76011562	CHIP, 1/20W 5.6K OHM J
RS02	76011562	CHIP, 1/20W 5.6K OHM J
RS03	76011562	CHIP, 1/20W 5.6K OHM J
RS04	76011562	CHIP, 1/20W 5.6K OHM J
RS05	76011562	CHIP, 1/20W 5.6K OHM J
RS06	76011562	CHIP, 1/20W 5.6K OHM J
RS07	76011562	CHIP, 1/20W 5.6K OHM J
RS08	76011562	CHIP, 1/20W 5.6K OHM J
RS09	76011562	CHIP, 1/20W 5.6K OHM J
RS10	76011562	CHIP, 1/20W 5.6K OHM J
RS11	76011562	CHIP, 1/20W 5.6K OHM J
RS12	76011562	CHIP, 1/20W 5.6K OHM J
RS13	76011562	CHIP, 1/20W 5.6K OHM J
RS14	76011562	CHIP, 1/20W 5.6K OHM J
RS15	76011562	CHIP, 1/20W 5.6K OHM J
RS16	76011562	CHIP, 1/20W 5.6K OHM J
RS17	76011562	CHIP, 1/20W 5.6K OHM J
RS18	76011562	CHIP, 1/20W 5.6K OHM J
RS19	76011562	CHIP, 1/20W 5.6K OHM J
RS20	76011562	CHIP, 1/20W 5.6K OHM J
RS21	76011562	CHIP, 1/20W 5.6K OHM J
RS22	76011562	CHIP, 1/20W 5.6K OHM J
RS23	76011101	CHIP, 1/20W 100 OHM J
RS24	76011101	CHIP, 1/20W 100 OHM J
RS25	76011101	CHIP, 1/20W 100 OHM J
RS26	76011101	CHIP, 1/20W 100 OHM J
RS27	76011101	CHIP, 1/20W 100 OHM J
RS28	76011101	CHIP, 1/20W 100 OHM J
RS29	76011682	CHIP, 1/20W 6.8K OHM J
RS30	76011182	CHIP, 1/20W 1.8K OHM J
RS31	76011100	CHIP, 1/20W 10 OHM J
RS32	76011221	CHIP, 1/20W 220 OHM J
RS33	76011222	CHIP, 1/20W 2.2K OHM J
RS34	76011221	CHIP, 1/20W 220 OHM J
RS35	76011222	CHIP, 1/20W 2.2K OHM J
RS37	76011101	CHIP, 1/20W 100 OHM J
RS38	76011101	CHIP, 1/20W 100 OHM J
RS41	76011821	CHIP, 1/20W 820 OHM J
RS42	76011821	CHIP, 1/20W 820 OHM J
RS43	76011223	CHIP, 1/20W 22K OHM J
RS44	76011223	CHIP, 1/20W 22K OHM J
RS45	76011104	CHIP, 1/20W 100K OHM J
RS46	76011104	CHIP, 1/20W 100K OHM J
RS47	76011222	CHIP, 1/20W 2.2K OHM J
RV10	76011222	CHIP, 1/20W 2.2K OHM J
RV11	76011222	CHIP, 1/20W 2.2K OHM J
RV12	76011222	CHIP, 1/20W 2.2K OHM J
RV20	76366750	CARBON FILM, 1/6W 75 OHM J
RV21	76366750	CARBON FILM, 1/6W 75 OHM J
RV22	76366750	CARBON FILM, 1/6W 75 OHM J
RV23	76366101	CARBON FILM, 1/6W 100 OHM J
RV33	76011750	CHIP, 1/20W 75 OHM J
RV34	76011750	CHIP, 1/20W 75 OHM J
RV35	76011750	CHIP, 1/20W 75 OHM J
RV36	76011750	CHIP, 1/20W 75 OHM J
RV37	76011750	CHIP, 1/20W 75 OHM J
RV40	76011750	CHIP, 1/20W 75 OHM J
RV41	76011391	CHIP, 1/20W 390 OHM J
RV42	76011331	CHIP, 1/20W 330 OHM J
RV44	76011332	CHIP, 1/20W 3.3K OHM J
RV45	76000445	CHIP JUMPER, 1608TYPE
RV46	76011100	CHIP, 1/20W 10 OHM J
RV47	76011100	CHIP, 1/20W 10 OHM J
RV51	76011750	CHIP, 1/20W 75 OHM J

Location No.	Parts No.	Description
RV52	76011750	CHIP, 1/20W 75 OHM J
RV53	76011750	CHIP, 1/20W 75 OHM J
RV54	76011750	CHIP, 1/20W 75 OHM J
RV55	76011750	CHIP, 1/20W 75 OHM J
RV56	76011750	CHIP, 1/20W 75 OHM J
RV61	76011101	CHIP, 1/20W 100 OHM J
RV62	76011101	CHIP, 1/20W 100 OHM J
RV63	76011101	CHIP, 1/20W 100 OHM J
RV64	76011101	CHIP, 1/20W 100 OHM J
RV65	76011101	CHIP, 1/20W 100 OHM J
RV66	76011750	CHIP, 1/20W 75 OHM J
RV160	76011101	CHIP, 1/20W 100 OHM J
RV161	76011101	CHIP, 1/20W 100 OHM J
RV162	76011101	CHIP, 1/20W 100 OHM J
RV163	76011101	CHIP, 1/20W 100 OHM J
RV164	76011101	CHIP, 1/20W 100 OHM J
RV165	76011101	CHIP, 1/20W 100 OHM J
RV166	76011681	CHIP, 1/20W 680 OHM J
RV167	76011681	CHIP, 1/20W 680 OHM J
RV168	76011681	CHIP, 1/20W 680 OHM J
RV169	76011101	CHIP, 1/20W 100 OHM J
RV200	76011101	CHIP, 1/20W 100 OHM J
RV201	76011101	CHIP, 1/20W 100 OHM J
RV202	76011102	CHIP, 1/20W 1K OHM J
GA89	76000445	CHIP JUMPER, 1608TYPE
GA90	76000445	CHIP JUMPER, 1608TYPE
GR001	76000576	CHIP JUMPER, 3216TYPE
GR002	76000576	CHIP JUMPER, 3216TYPE
GR02	76000445	CHIP JUMPER, 1608TYPE
GR03	76000445	CHIP JUMPER, 1608TYPE
GR04	76000445	CHIP JUMPER, 1608TYPE
GR10	76000445	CHIP JUMPER, 1608TYPE
GR11	76000445	CHIP JUMPER, 1608TYPE
GR12	76000445	CHIP JUMPER, 1608TYPE
GR25	76000445	CHIP JUMPER, 1608TYPE
GR26	76000445	CHIP JUMPER, 1608TYPE
GR27	76000445	CHIP JUMPER, 1608TYPE
GR28	76000445	CHIP JUMPER, 1608TYPE
GR30	76000445	CHIP JUMPER, 1608TYPE
GR112	76000445	CHIP JUMPER, 1608TYPE
GR113	76000445	CHIP JUMPER, 1608TYPE
GR120	76000445	CHIP JUMPER, 1608TYPE
GR121	76000445	CHIP JUMPER, 1608TYPE
GR122	76000445	CHIP JUMPER, 1608TYPE
GR123	76000445	CHIP JUMPER, 1608TYPE
GR603	76000445	CHIP JUMPER, 1608TYPE
GR604	76000445	CHIP JUMPER, 1608TYPE
GR612	76000445	CHIP JUMPER, 1608TYPE
GR613	76000445	CHIP JUMPER, 1608TYPE
GRS02	76000445	CHIP JUMPER, 1608TYPE
JR001	76000445	CHIP JUMPER, 1608TYPE
JR002	76000445	CHIP JUMPER, 1608TYPE
JR003	76000445	CHIP JUMPER, 1608TYPE
JR004	76000445	CHIP JUMPER, 1608TYPE
JR005	76000445	CHIP JUMPER, 1608TYPE
JR006	76000445	CHIP JUMPER, 1608TYPE
JR007	76000445	CHIP JUMPER, 1608TYPE
JR008	76000445	CHIP JUMPER, 1608TYPE
JR009	76000445	CHIP JUMPER, 1608TYPE
JR010	76000445	CHIP JUMPER, 1608TYPE
JR011	76000445	CHIP JUMPER, 1608TYPE
JR012	76000445	CHIP JUMPER, 1608TYPE
JR013	76000445	CHIP JUMPER, 1608TYPE
JR014	76000445	CHIP JUMPER, 1608TYPE
JR015	76000445	CHIP JUMPER, 1608TYPE
JR016	76000445	CHIP JUMPER, 1608TYPE
JR017	76000445	CHIP JUMPER, 1608TYPE
JR018	76000445	CHIP JUMPER, 1608TYPE
JR019	76000445	CHIP JUMPER, 1608TYPE
JR020	76000445	CHIP JUMPER, 1608TYPE
JR021	76000445	CHIP JUMPER, 1608TYPE
JR022	76000445	CHIP JUMPER, 1608TYPE
JR023	76000445	CHIP JUMPER, 1608TYPE
JR024	76000445	CHIP JUMPER, 1608TYPE
JR025	76000445	CHIP JUMPER, 1608TYPE
JR026	76000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
JR027	76000445	CHIP JUMPER, 1608TYPE
ZC01	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC02	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC03	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC04	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC05	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC06	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC07	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC08	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC09	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC10	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC11	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC12	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC13	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC16	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC18	76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC19	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC21	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC22	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC23	76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
COILS & TRANSFORMERS		
L001	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
L002	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
L003	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
L101	23248398	COIL, CHOKE, TLN3278D
L102	23103828	INDUCTOR, BEAD, TEM2121M
L103	23103828	INDUCTOR, BEAD, TEM2121M
L151	23103828	INDUCTOR, BEAD, TEM2121M
L152	23103828	INDUCTOR, BEAD, TEM2121M
L803	23103302	FERRITE CHOKE, TEM2011AH
L804	23103302	FERRITE CHOKE, TEM2011AH
L805	23103302	FERRITE CHOKE, TEM2011AH
L820	23103307	FERRITE CHOKE, TEM2014AA
L821	23103307	FERRITE CHOKE, TEM2014AA
L855	23103302	FERRITE CHOKE, TEM2011AH
L856	23103302	FERRITE CHOKE, TEM2011AH
L857	23103302	FERRITE CHOKE, TEM2011AH
L858	23103302	FERRITE CHOKE, TEM2011AH
L859	23103302	FERRITE CHOKE, TEM2011AH
L860	23103302	FERRITE CHOKE, TEM2011AH
L861	23248442	COIL, CHOKE, TLN3515AH
L862	23248442	COIL, CHOKE, TLN3515AH
L864	23248442	COIL, CHOKE, TLN3515AH
L8920	23289996	COIL, PEAKING, TRF4220AF
L8921	23289996	COIL, PEAKING, TRF4220AF
L8930	23289996	COIL, PEAKING, TRF4220AF
L8931	23289996	COIL, PEAKING, TRF4220AF
L8960	23103828	INDUCTOR, BEAD, TEM2121M
L8961	23103828	INDUCTOR, BEAD, TEM2121M
LB19	23103828	INDUCTOR, BEAD, TEM2121M
LB51	23289972	COIL, PEAKING, TRF4100AC
LC02	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LC03	23103271	FILTER, EMI 2012 201OHM 0.35A TEM2033AD
LC04	23103271	FILTER, EMI 2012 201OHM 0.35A TEM2033AD
LC05	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LC06	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LE08	23103302	FERRITE CHOKE, TEM2011AH
LE30	23289979	COIL, PEAKING, TRF4100AZ
LE31	23246919	COIL, CHOKE 13X8H 33MMH M TLN3586AH
LE32	23246934	COIL, CHOKE 4.5X3.5H 1.0MMHM TLN3601AH
LE33	23103888	INDUCTOR, CHIP BEAD, TEM2131AM
LE34	23289979	COIL, PEAKING, TRF4100AZ
LE35	23246919	COIL, CHOKE 13X8H 33MMH M TLN3586AH
LE36	23246934	COIL, CHOKE 4.5X3.5H 1.0MMHM TLN3601AH
LE37	23103888	INDUCTOR, CHIP BEAD, TEM2131AM
LE38	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LE40	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LE59	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LE61	23103302	FERRITE CHOKE, TEM2011AH
LE64	23103302	FERRITE CHOKE, TEM2011AH
LE81	23103302	FERRITE CHOKE, TEM2011AH
LE82	23103302	FERRITE CHOKE, TEM2011AH
LE83	23103302	FERRITE CHOKE, TEM2011AH
LE84	23103302	FERRITE CHOKE, TEM2011AH
LE85	23248432	COIL, CHOKE, TLN3499AH

Location No.	Parts No.	Description
LE86	23248432	COIL, CHOKE, TLN3499AH
LE87	23248432	COIL, CHOKE, TLN3499AH
LE88	23248445	COIL, CHOKE, TLN3441AH
LE91	23103265	FILTER, CHIP BEAD INDUCTOR TEM2160AM
LE92	23103888	INDUCTOR, CHIP BEAD, TEM2131AM
LE93	23103888	INDUCTOR, CHIP BEAD, TEM2131AM
LE94	23103888	INDUCTOR, CHIP BEAD, TEM2131AM
LE95	23103888	INDUCTOR, CHIP BEAD, TEM2131AM
LF10	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
LF11	23246895	COIL, CHOKE 13X4.6H 33MMH M TLN3561AH
LF12	23246934	COIL, CHOKE 4.5X3.5H 1.0MMHM TLN3601AH
LF13	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
LF21	23246895	COIL, CHOKE 13X4.6H 33MMH M TLN3561AH
LF22	23246934	COIL, CHOKE 4.5X3.5H 1.0MMHM TLN3601AH
LF23	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
LF90	23289983	COIL, PEAKING, TRF4101AZ
LF91	23289983	COIL, PEAKING, TRF4101AZ
LV02	23103314	COIL, FILTER, TEM2028AH
LV03	23103314	COIL, FILTER, TEM2028AH
LV13	23289022	COIL, PEAKING, TRF4100AT
LV17	23289022	COIL, PEAKING, TRF4100AT
LV20	23221156	COIL, PEAKING, TRF4560AJ
LV41	23289024	COIL, PEAKING, TRF4220AT
⚠ T801	23211839	COIL, LINE FILTER, TRF3209AH
⚠ T802	23211836	COIL, LINE FILTER, TRF3197AH
⚠ T862	23217780	TRANSFORMER, CONVERTER TPW3570AS
⚠ TE01	23211905	COIL, LINE FILTER 26X31H 11MH TRF3228AH
⚠ TE62	23217781	TRANSFORMER, CONVERTER TPW3571AS
GR605	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
SEMICONDUCTORS		
Q101	23205506	TRANSISTOR, 2SC4081 Q
Q161	23205506	TRANSISTOR, 2SC4081 Q
Q601	23085839	IC, TV SOUND OUT CPP 12PIN TA8216HQ(5)
Q612	23205346	TRANSISTOR, KTA2014Y/P
Q613	23205506	TRANSISTOR, 2SC4081 Q
Q661	23205424	TRANSISTOR, KTC2875B/P
Q662	23205424	TRANSISTOR, KTC2875B/P
Q663	23085575	IC, OP AMP, BA4558
Q664	23205325	TRANSISTOR, RN2404(F)
Q681	23205424	TRANSISTOR, KTC2875B/P
Q682	23205424	TRANSISTOR, KTC2875B/P
Q801	23135080	IC, STRZ4267
Q815	23205347	TRANSISTOR, KTC4075Y/P
Q846	23205347	TRANSISTOR, KTC4075Y/P
Q847	23205347	TRANSISTOR, KTC4075Y/P
Q848	23205347	TRANSISTOR, KTC4075Y/P
Q849	23205346	TRANSISTOR, KTA2014Y/P
Q850	23205347	TRANSISTOR, KTC4075Y/P
Q851	23205346	TRANSISTOR, KTA2014Y/P
⚠ Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠ Q866	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q870	23085389	IC, NJM431L
Q891	23009998	IC, BA00JC5WT-V5
Q892	23009998	IC, BA00JC5WT-V5
Q893	23009998	IC, BA00JC5WT-V5
Q894	23085503	IC, OPE AMP, TA75358P
Q8950	23205347	TRANSISTOR, KTC4075Y/P
Q8951	23205347	TRANSISTOR, KTC4075Y/P
Q8952	23205346	TRANSISTOR, KTA2014Y/P
Q8960	23205347	TRANSISTOR, KTC4075Y/P
Q8961	23205347	TRANSISTOR, KTC4075Y/P
QA81	23205329	TRANSISTOR, RN1404(F)
QA82	23205329	TRANSISTOR, RN1404(F)
QA83	23205329	TRANSISTOR, RN1404(F)
QA84	23205329	TRANSISTOR, RN1404(F)
QA85	23205329	TRANSISTOR, RN1404(F)
QA86	23205329	TRANSISTOR, RN1404(F)
QA88	23205329	TRANSISTOR, RN1404(F)
QA89	23205329	TRANSISTOR, RN1404(F)
QA91	23085674	IC, QT240-ISS-G-CA
QA92	23085674	IC, QT240-ISS-G-CA
QA93	23085731	IC, +4.2V 2% REG. SOT-23-5 R1121N421B-TR-FA
QB51	23085527	IC, OPE AMP, M5218AP
QB52	23205499	TRANSISTOR, KTC3198 Y/P
QB53	23205497	TRANSISTOR, KTA1266 Y/P

Location No.	Parts No.	Description
QB80	23085600	IC, PST9129
QB81	23205446	TRANSISTOR, 2SC2412K, Q T146
QB84	23205446	TRANSISTOR, 2SC2412K, Q T146
QB501	23085951	IC, BLASTER IC S3C80F9BKZ-SO77
QB502	23205307	TRANSISTOR, 2SA562TM-Y(F)
QB504	23205506	TRANSISTOR, 2SC4081 Q
QB505	23205506	TRANSISTOR, 2SC4081 Q
QB508	23205307	TRANSISTOR, 2SA562TM-Y(F)
QB509	23205337	TRANSISTOR, 2SC2878-A(TEM)
QB510	23205317	TRANSISTOR, RN1204(F)
QB511	23205317	TRANSISTOR, RN1204(F)
QB512	23205337	TRANSISTOR, 2SC2878-A(TEM)
QB513	23205317	TRANSISTOR, RN1204(F)
QB514	23085507	IC, TC4S66F(F)
QB515	23085507	IC, TC4S66F(F)
QB516	23009976	IC, BH33FB1WG-TR
QB517	23205317	TRANSISTOR, RN1204(F)
QC01	23085879	IC, USB2224-NU-05 USB2224-NU-05
QC02	23085121	IC, TC7SH04FU(TE85L,F)
QC03	23205578	TRANSISTOR, RTQ035P02
QC04	23205578	TRANSISTOR, RTQ035P02
QC05	23205578	TRANSISTOR, RTQ035P02
QC06	23205578	TRANSISTOR, RTQ035P02
QC07	23085774	IC, REG PQ033EZ01ZPH
QE01	23135089	IC, HYBRID 650V STR-W6756
QE21	23205346	TRANSISTOR, KTA2014Y/P
QE22	23205347	TRANSISTOR, KTC4075Y/P
QE30	23085454	IC, PQ1CY1032Z
QE31	23205347	TRANSISTOR, KTC4075Y/P
QE32	23205347	TRANSISTOR, KTC4075Y/P
QE33	23085454	IC, PQ1CY1032Z
QE34	23205347	TRANSISTOR, KTC4075Y/P
QE35	23205347	TRANSISTOR, KTC4075Y/P
QE40	23000903	IC, REGULATOR ADJ TO252-5 BA00BC0WFP-E2
QE50	23000903	IC, REGULATOR ADJ TO252-5 BA00BC0WFP-E2
QE51	23205347	TRANSISTOR, KTC4075Y/P
QE52	23205347	TRANSISTOR, KTC4075Y/P
QE53	23000903	IC, REGULATOR ADJ TO252-5 BA00BC0WFP-E2
QE54	23205347	TRANSISTOR, KTC4075Y/P
QE55	23205347	TRANSISTOR, KTC4075Y/P
QE59	23085028	IC, BA90BC0FP-E2
⚠ QE62	23000823	IC, PHOTO COUPLER, TLP421F(GR)
QE81	23085389	IC, NJM431L
QE93	23205301	TRANSISTOR, 2SA1887(FA,F)
QE94	23205446	TRANSISTOR, 2SC2412K, Q T146
QE95	23205446	TRANSISTOR, 2SC2412K, Q T146
QE96	23205301	TRANSISTOR, 2SA1887(FA,F)
QE97	23205446	TRANSISTOR, 2SC2412K, Q T146
QE98	23085415	IC, BD4746G
QE99	23205347	TRANSISTOR, KTC4075Y/P
QF05	23085415	IC, BD4746G
QF10	23085807	IC, HTSSOP B20 CONTROL BD9851EFV-E2
QF11	23205583	TRANSISTOR, FET RSQ035P03TR
QF21	23205583	TRANSISTOR, FET RSQ035P03TR
QS01	23009916	IC, MM1631AJBE
QS02	23205347	TRANSISTOR, KTC4075Y/P
QS05	23205347	TRANSISTOR, KTC4075Y/P
QS06	23205347	TRANSISTOR, KTC4075Y/P
QS07	23205424	TRANSISTOR, KTC2875B/P
QS08	23205424	TRANSISTOR, KTC2875B/P
QS09	23205325	TRANSISTOR, RN2404(F)
QV12	23085806	IC, 3 IN 1 OUT 75OHM DRIVER MM1228XFBE
QV13	23205346	TRANSISTOR, KTA2014Y/P
QV30	23085352	IC, M52055FP
QV43	23205346	TRANSISTOR, KTA2014Y/P
QV44	23205346	TRANSISTOR, KTA2014Y/P
QV200	23085393	IC, MM1502XN
D601	23357697	DIODE, 1SS133
D602	23357697	DIODE, 1SS133
D603	23357697	DIODE, 1SS133
D604	23357697	DIODE, 1SS133
D611	23357697	DIODE, 1SS133
D612	23357697	DIODE, 1SS133
D613	23357697	DIODE, 1SS133
D614	23357697	DIODE, 1SS133
D615	23357697	DIODE, 1SS133

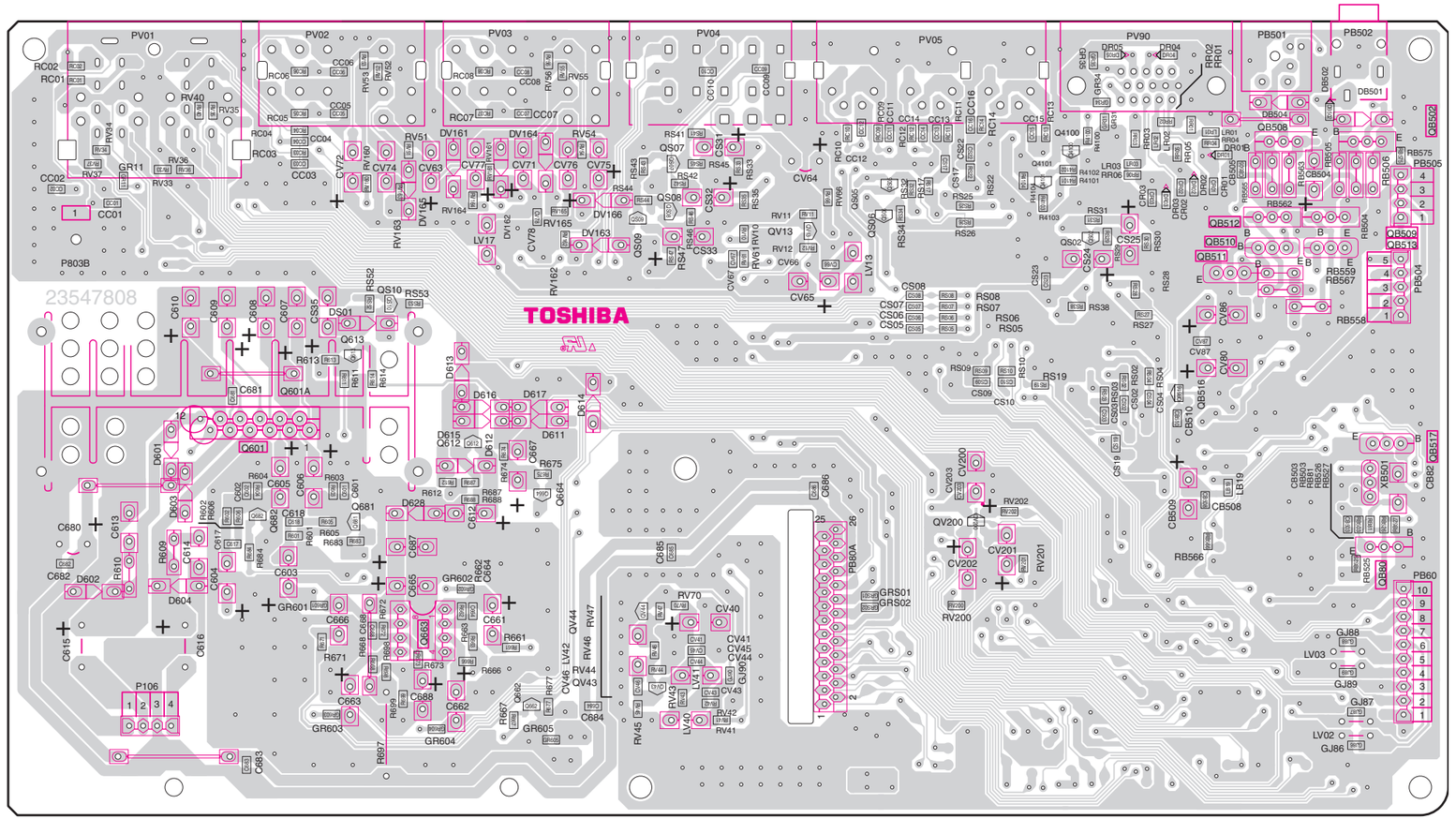
Location No.	Parts No.	Description
D616	23357697	DIODE, 1SS133
D617	23357697	DIODE, 1SS133
D628	23357865	DIODE, ZENER, MTZJ12B
D801	23357712	DIODE, D5SB60, 4009 F05
D805	23357850	DIODE, ZENER, MTZJ9.1A
D806	23357893	DIODE, ZENER, MTZJ27C
D809	23357905	DIODE, ZENER, MTZJ36C
D810	23357893	DIODE, ZENER, MTZJ27C
D811	23357511	DIODE, AG01A
D812	23357852	DIODE, ZENER, MTZJ9.1C
D813	23357512	DIODE, AL01Z
D815	23357748	DIODE, ZENER, MA8062-M
D840	23357703	DIODE, 1SS355
D841	23357703	DIODE, 1SS355
D842	23357748	DIODE, ZENER, MA8062-M
D843	23362216	DIODE, CHIP VRM=80V IO=50MA DAN202UT106
D855	23362136	DIODE, YG801C04RF119
D857	23362136	DIODE, YG801C04RF119
D859	23362210	DIODE, SCHOTTKY VRM90V 6A RB095T-90
D870	23357703	DIODE, 1SS355
⚠ D899	76019485	VARISTOR, TNR10V431K
D8950	23362216	DIODE, CHIP VRM=80V IO=50MA DAN202UT106
D8951	23357745	DIODE, ZENER, MA8056-M
D8960	23357506	DIODE, DAP202U
D8961	23357745	DIODE, ZENER, MA8056-M
DA91	23357406	DIODE, ZENER, UDZS5.6B
DA92	23357406	DIODE, ZENER, UDZS5.6B
DB51	23358616	PHOTO DIODE, PIN 900NM HPI-2FER4
DB52	23357697	DIODE, 1SS133
DB54	23357697	DIODE, 1SS133
DB55	23357697	DIODE, 1SS133
DB56	23357697	DIODE, 1SS133
DB81	23358584	DIODE, LED, SML-811UTT86
DB82	23358585	LED, LAMP, SML-810MTT86
DB501	23357697	DIODE, 1SS133
DB504	23357697	DIODE, 1SS133
DC01	23362231	DIODE, NNCD6.8MG-T1
DC02	23362231	DIODE, NNCD6.8MG-T1
DC03	23362231	DIODE, NNCD6.8MG-T1
DC04	23362231	DIODE, NNCD6.8MG-T1
DC05	23362194	DIODE, HIGH SPEED SWITCHING 1SS193(TE85L,F)
DE01	23357711	DIODE, D3SB60, 4109 F05
DE08	23357709	DIODE, RU1P
DE19	23357703	DIODE, 1SS355
DE30	23362215	DIODE, SCHOTTKY VRM45V 6A RB095B-40TL
DE31	23357739	DIODE, ZENER, MA8047-M
DE32	23362211	DIODE, SCHOTTKY VRM35V 6A RB095B-30TL
DE33	23357739	DIODE, ZENER, MA8047-M
DE62	23357900	DIODE, ZENER, MTZJ33B
DE63	23357892	DIODE, ZENER, MTZJ27B
DE64	23357366	DIODE, FR105-B5
DE66	23357842	DIODE, ZENER, MTZJ6.8B
DE71	23357697	DIODE, 1SS133
DE72	23357697	DIODE, 1SS133
DE81	23362208	DIODE, SCHOTTKY VRM45V 6A RB095T-40
DE82	23362209	DIODE, SCHOTTKY VRM60V 6A RB095T-60
DE83	23362210	DIODE, SCHOTTKY VRM90V 6A RB095T-90
DE84	23357366	DIODE, FR105-B5
DE91	23357874	DIODE, ZENER, MTZJ16B
DE92	23357874	DIODE, ZENER, MTZJ16B
DE98	23357703	DIODE, 1SS355
DE99	23357703	DIODE, 1SS355
DF11	23362054	DIODE, RB521S-30
DF12	23362230	DIODE, ZENER VZ=4.7-5.2 PMDS PTZ4.7B TE25
DF15	23362214	DIODE, SCHOTTKY VRM30 IO3.0 RSX301L-30 TE25
DF21	23362054	DIODE, RB521S-30
DF22	23362230	DIODE, ZENER VZ=4.7-5.2 PMDS PTZ4.7B TE25
DF25	23362214	DIODE, SCHOTTKY VRM30 IO3.0 RSX301L-30 TE25
DV161	23357854	DIODE, ZENER, MTZJ10B
DV162	23357854	DIODE, ZENER, MTZJ10B
DV163	23357854	DIODE, ZENER, MTZJ10B
DV164	23357854	DIODE, ZENER, MTZJ10B
DV165	23357854	DIODE, ZENER, MTZJ10B
DV166	23357854	DIODE, ZENER, MTZJ10B

MISCELLANEOUS

Location No.	Parts No.	Description
A305	23717197	SCREW, THUMB SCREW
A306	23717198	SCREW, THUMB SCREW RETAINER
A516	23717192	SCREW, SCREW, AV BOARD
B230	23738088	SCREW, BTBW3X12ECO
B231	23738088	SCREW, BTBW3X12ECO
B233	23738088	SCREW, BTBW3X12ECO
B235	23738088	SCREW, BTBW3X12ECO
B237	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
B898	23165495	TERMINAL, EARTH PHI3 MET31-0332
B899	23165495	TERMINAL, EARTH PHI3 MET31-0332
BB01A	23713974	CONNECTOR, BB 100P PLUG 1-5175473-0
BB02A	23713974	CONNECTOR, BB 100P PLUG 1-5175473-0
BB20	23713014	PLUG, B-B 16P 1.5
BB21	23713013	SOCKET, B-B 16P 1.5
BB30	23713014	PLUG, B-B 16P 1.5
BB31	23713013	SOCKET, B-B 16P 1.5
BB41	23713822	SOCKET, B-B 2MM 56P
BB42	23713801	PLUG, B-B 56P 2MM
BB51A	23965241	TAPE, CC #12 10MM L30M
D855B	23717241	SCREW, BITTB3X8ECO
D857B	23717241	SCREW, BITTB3X8ECO
D859B	23717241	SCREW, BITTB3X8ECO
DE81B	23717241	SCREW, BITTB3X8ECO
DE82B	23717241	SCREW, BITTB3X8ECO
DE83B	23717241	SCREW, BITTB3X8ECO
⚠ F801	23144319	FUSE, CARTRIDGE, 125V 8A, 5.2X20
F801A	23165433	FUSE HOLDER, 5.2
⚠ F820	23144378	FUSE, RADIAL LEAD SUB-MINIATUR 250V 2A
⚠ F855	23144715	FUSE, AXIAL 125V 5.0A
⚠ F857	23144715	FUSE, AXIAL 125V 5.0A
⚠ F859	23144714	FUSE, AXIAL 125V 4.0A
⚠ F899	23144326	FUSE, CARTRIDGE, 250V 2A, 5.2X20
F899A	23165433	FUSE HOLDER, 5.2
⚠ FE01	23144710	FUSE, AXIAL 125V 2.0A
⚠ FE30	23144709	FUSE, AXIAL 125V 1.5A
⚠ FE31	23144709	FUSE, AXIAL 125V 1.5A
⚠ FE32	23144709	FUSE, AXIAL 125V 1.5A
⚠ FE33	23144710	FUSE, AXIAL 125V 2.0A
⚠ FE81	23144714	FUSE, AXIAL 125V 4.0A
⚠ FE82	23144714	FUSE, AXIAL 125V 4.0A
⚠ FE83	23144714	FUSE, AXIAL 125V 4.0A
⚠ FE84	23144707	FUSE, AXIAL 125V 630MA
H003	23344525	SWITCH, 2I3O BUNPAI US DIG RSU143
MJ22	23389317	CABLE, FFC P0.5-50-80(62HM95)
MJ60	23389317	CABLE, FFC P0.5-50-80(62HM95)
MT201	23368929	CABLE, PHONO 2C-VV 240MM C4-0769ALI
MT202	23368929	CABLE, PHONO 2C-VV 240MM C4-0769ALI
MV01	23368930	CABLE, MDR 26P 140MM 3M 79162-26M-014-011F
⚠ P800	23713702	PLUG, 2P 11.88MM W VT
⚠ P801	23372117	POWER CORD, U/C 125V10A HSV 5 CMC-02P 5
P805	23164965	CONNECTOR, PLUG 4P, W-P3504-#02
P811A	23713713	PLUG, 2P 3.96MM VH
P891	23713761	PLUG, NP 2.5MM G, B10B-EH-F1A
P892	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
P901	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P902A	23164563	CONNECTOR, PLUG 3P
P903	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
P905	23713756	PLUG, 5P 2.5MM G, B5B-EH-F1-TV4
PB22	23713756	PLUG, 5P 2.5MM G, B5B-EH-F1-TV4
PB60	23367070	PLUG, 10P 2.5MM G, JST-EH B10B-EH-F1A
PB80A	23713976	CONNECTOR, BB 26P SOCKET 2-917362-6
PB80B	23713975	CONNECTOR, BB 26P PLUG 2-917360-6
PB501	23023218	JACK, FHI3.5 2P STERE SMK LGA6502-0101
PB504	23713756	PLUG, 5P 2.5MM G, B5B-EH-F1-TV4
PB505	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
PC01	23713622	CONNECTOR, 2MM 5P SMD B5B-PH-SM4-TBT
PC02	23903251	SOCKET, CFH050-C7-1180
PC02A	23903257	SOCKET, CFHEJT-90-0000
PC03	23903250	SOCKET, CLE9042-0101F
PJ22A	23713421	CONNECTOR, 0.5MM 50P FH12-50S-0.5SV
PJ60A	23713421	CONNECTOR, 0.5MM 50P FH12-50S-0.5SV
PV01	23023094	JACK, PIN 1S6P SMK LAP5120-0205FC
PV02	23365949	JACK, 5P, 1E:OFF+2R:OFF+2L:OFF, JALC @U104
	23023184	JACK, 1S3P, LAP5100-1502F @UV04
PV03	23365949	JACK, 5P, 1E:OFF+2R:OFF+2L:OFF, JALC
PV04	23365920	JACK, 1E:OFF+2R:OFF+2L:OFF JALC JACK 5P
PV05	23023439	JACK, PIN 4/4P JALCO YKC21-4672N
PZ01	23713951	CONNECTOR, CONNECT S9B-PH-K-S(LF)
Q601B	23717241	SCREW, BITTB3X8ECO
⚠ S810	23344522	SWITCH, SPVF11
⚠ SR81	23146590	RELAY, DLS5D1-O(M)0.25W
⚠ SR82	23146584	RELAY, DC12V, TV5, DG-3
⚠ UF02	23125945	DC FAN, D07R-12TL 01B(K) D07R-12TL 01B(K)
W661A	23351323	SPEAKER, 100X100 8-OHM 20W SPK-1471AM
W661B	23351324	SPEAKER, TW 40X40 140-OHM 20W SPK-1472AM
W662A	23351323	SPEAKER, 100X100 8-OHM 20W SPK-1471AM
W662B	23351324	SPEAKER, TW 40X40 140-OHM 20W SPK-1472AM
XB501	23153504	CERAMIC RESONATOR, 8.00MHZ 25OHM
XC01	23153589	CRYSTAL RESONATOR, XTAL 12MHZ
PC BOARD ASSEMBLIES		
✻ U102	23764252	PC BOARD ASSY, MOTHER 62HM95 PU PD2140A
✻ U104	23764260	PC BOARD ASSY, BACK AV 62HM95 PU PD2141A-1
✻ U105	23764261	PC BOARD ASSY, IR BLASTER PU PD2141A-2
✻ U107	23764265	PC BOARD ASSY, TUNER-RF PU PD2147A
✻ U801	23764257	PC BOARD ASSY, MAIN POWER PU PD2139A-1
✻ U802	23764258	PC BOARD ASSY, SUB POWER 62HM95 PU PD2139A-2
✻ UA03	23764259	PC BOARD ASSY, DOOR SW 62HM95 PU PD2139A-3
✻ UA06	23764256	PC BOARD ASSY, TOUCH PAD 52HM95 PU PD2144A
✻ UC01	23764254	PC BOARD ASY, MULTI CARD 62HM95 PU PD2142A
✻ UD01	23148434	SIGNAL UNIT, 62HM95 DSB-SUM070A2
✻ UD02	23148435	BLOCK, SEINE DIGITAL/DIGITAL TUNER DSB-SHU154A-PD2230/PD2232
✻ UV04	23764262	PC BOARD ASSY, FRONT AV 62HM95 PU PD2139A-4
TUNER		
⚠ H001	23321536	TUNER, TIF US HOR IIC PH 864M ENG36A36GF
ACCESSORIES		
A701	23067802	CARTON, CARTON
A703	23946772	PACKING, TOP PACKING
A708	23946769	PACKING, BOTTOM PACKING
A709	23067695	CARTON, BASE TRAY
A710	23946775	PACKING, SUPPORT POST
⚠ K912	23306627	REMOCON HAND UNIT IR, PTVUSA CT-90233
K913	23306614	REMOCON HAND UNIT
KB01	23000852	REMOCON RECEIVER, PIC-37043TE2
⚠ Y101E	23566650	OWNERS MANUAL, ENGLISH/FRENCH E/F
Y102	23589650	SHEET, IMPORTANT NOTES NOTES
CABINET PARTS		
⚠ A025	23532769	COVER, LAMP TUNNEL PURCHASE ASY
⚠ A026	23940582	PIECE, LAMPDOOR PURCH ASY
⚠ A101	23533280	COVER, BASE PURCHASE ASSEY
⚠ A201	23533345	COVER, BEZEL PURCHASE ASM
A204	23532763	COVER, BACK COVER
⚠ A205	23532784	COVER, BACKCOVER PURCHASE ASSY
A215	23940083	PIECE, PIECE ENCLOSURE,DLE
A220	23451976	PUSH CATCH, CLICK
⚠ A222	23532885	COVER, PEDESTAL ASSY
A225	23940084	PIECE, STRIKER
A231	23940100	PIECE, PIECE SIDE RIGHT
A232	23940099	PIECE, PIECE SIDE LEFT
⚠ A271	23405476	OPTICAL ENGINE, LV-672 TB 0D
A278	23084267	BRACKET, SPEED CLIP
⚠ A401	23533281	COVER, REAR COVER PURCHASE
A421	23532738	COVER, REAR COVER,DLE
A422	23084862	BRACKET, REAR VENT
A661	23940401	PIECE, SPEAKER PLATE L 62HM95
A662	23940402	PIECE, SPEAKER PLATE R 62HM95
E998Z	23311153	EXCHANGE LAMP, PJ-D95-LMP
K501	23311149	SCREEN, LENTICULAR SHEET
K502	23311158	SCREEN
K601	23405455	MIRROR
SK01	23587525	SERVICE KIT, LAMP FAN
SK02	23587526	SERVICE KIT, DMD FAN
SK03	23587527	SERVICE KIT, BALLAST FAN
SK04	23587528	SERVICE KIT, THERMOSTAT
SK06	23587536	SERVICE KIT, B TO F CABLE
SK08	23587538	SERVICE KIT, S TO F CABLE
SK09	23587539	SERVICE KIT, FAN TRANSFER CABLE

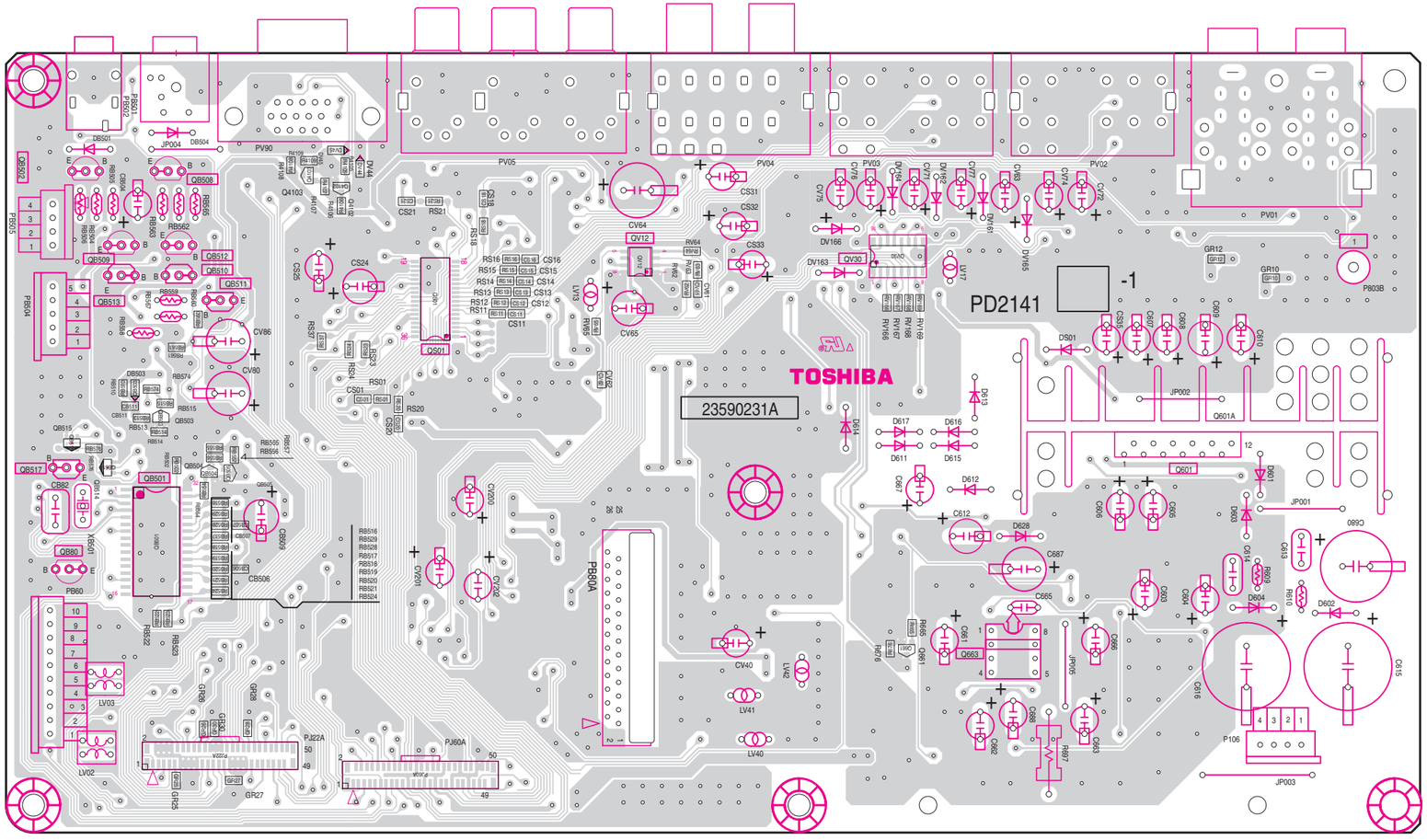
BACK AV BOARD PD2141A-1 (U104)

BOTTOM (FOIL) SIDE



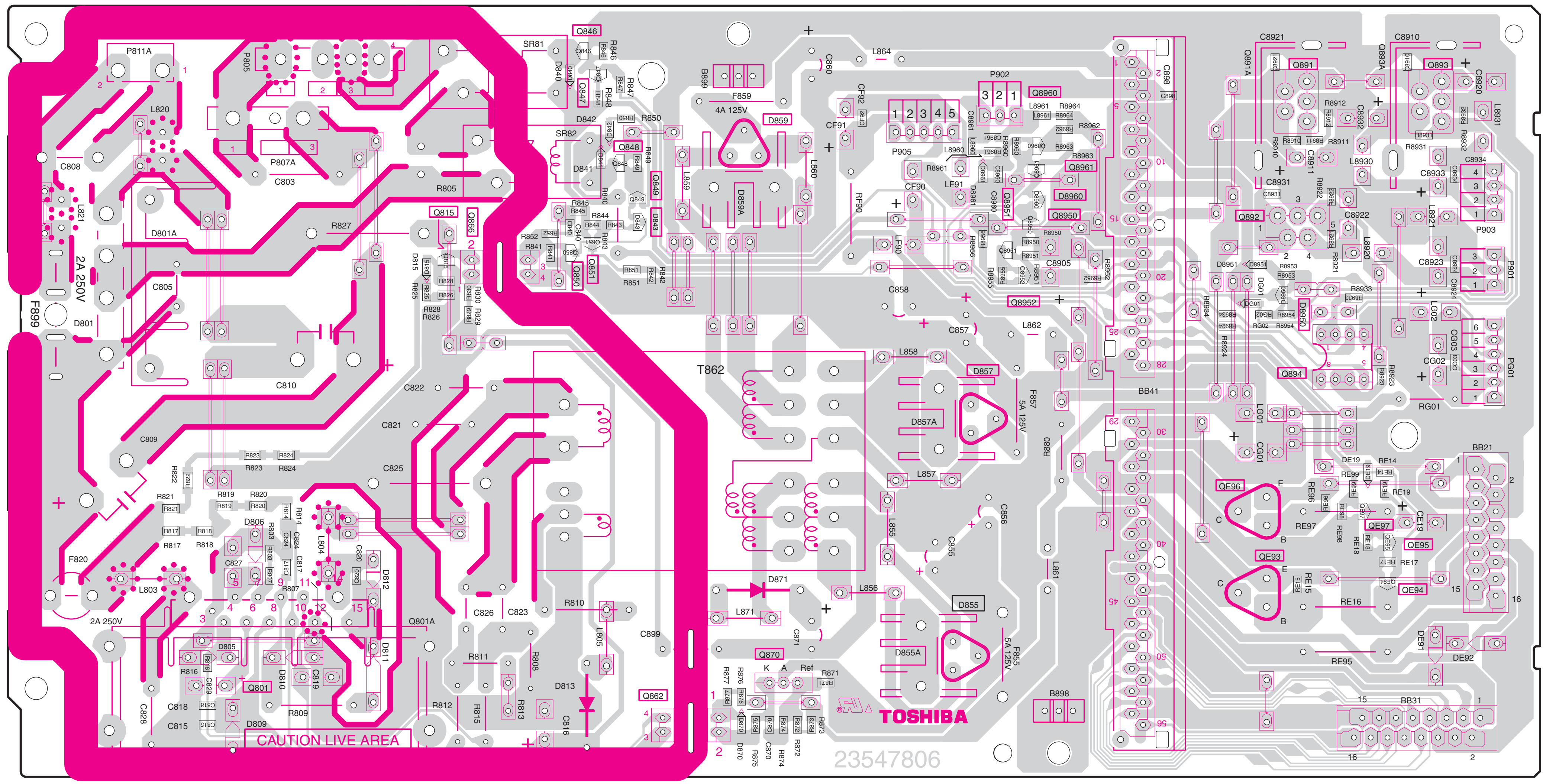
BACK AV BOARD PD2141A-1 (U104)

TOP (COMPONENT) SIDE



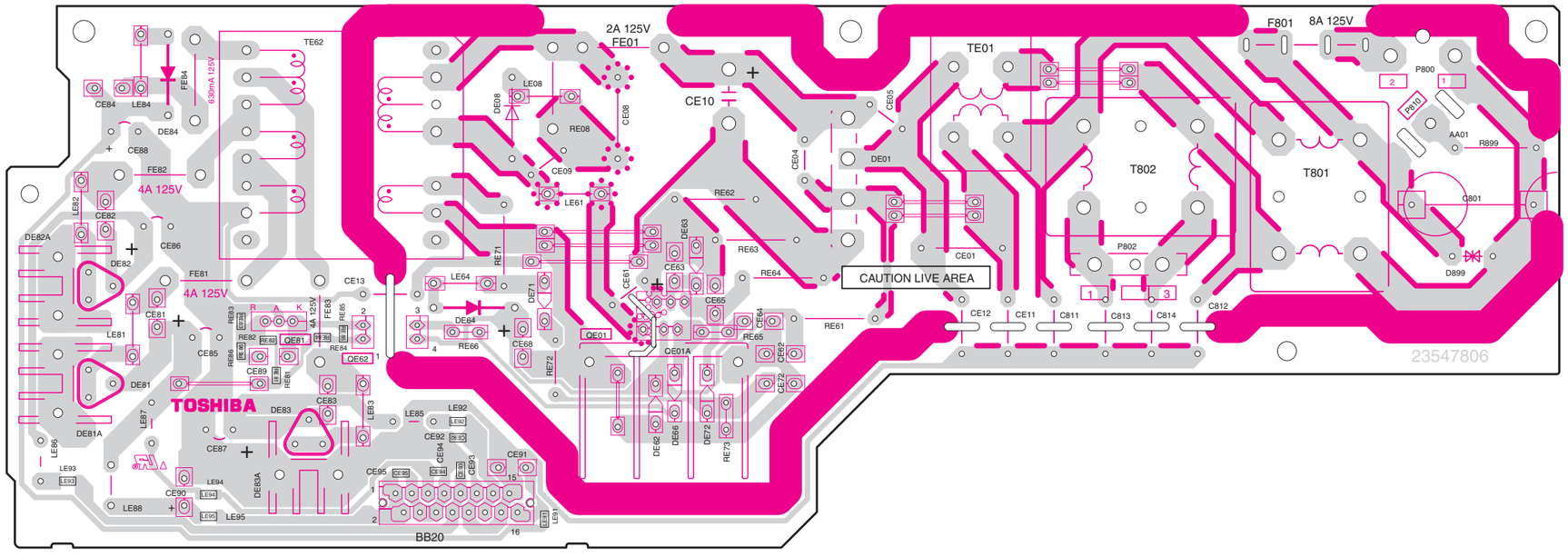
MAIN POWER BOARD PD2139A-1 (U801)

BOTTOM (FOIL) SIDE



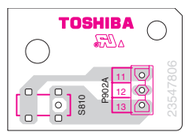
SUB POWER BOARD PD2139A-2 (U802)

BOTTOM (FOIL) SIDE



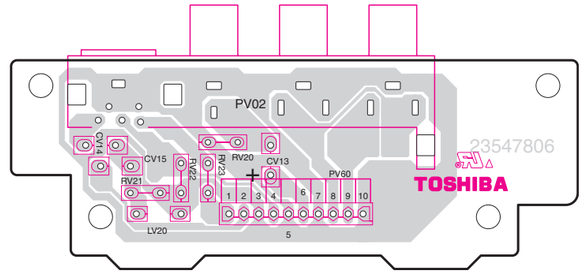
DOOR SW BOARD PD2139A-3 (UA03)

BOTTOM (FOIL) SIDE



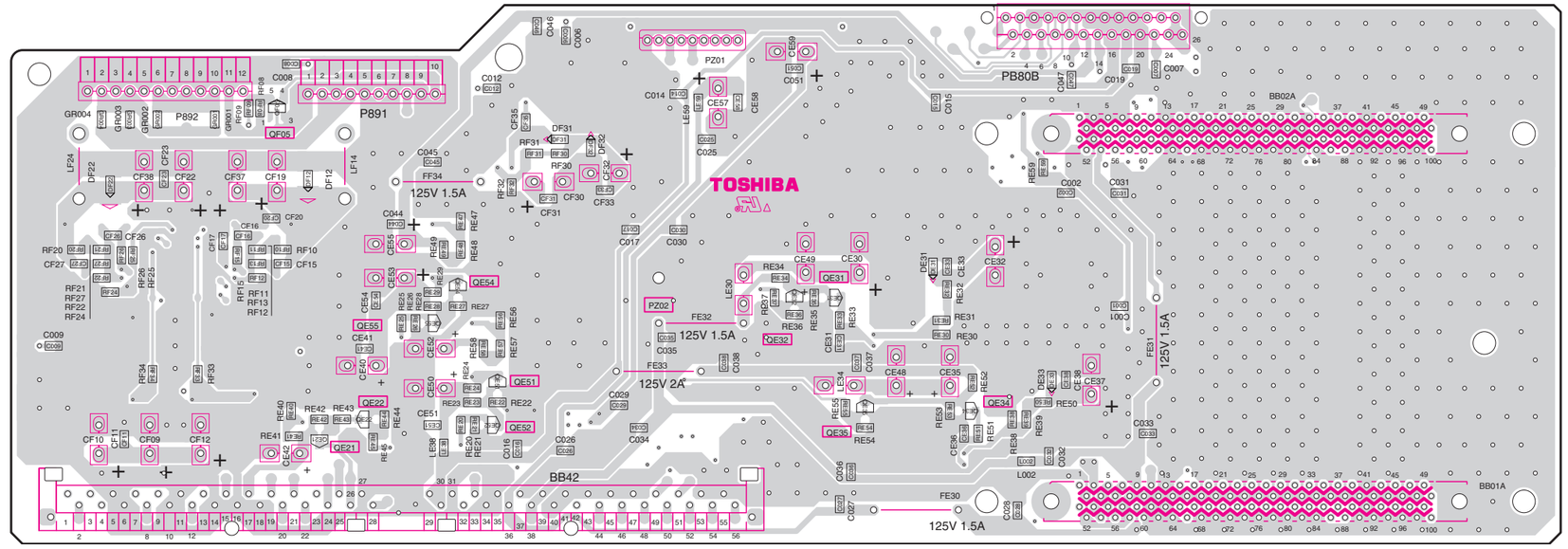
FRONT AV BOARD PD2139A-4 (UV04)

BOTTOM (FOIL) SIDE



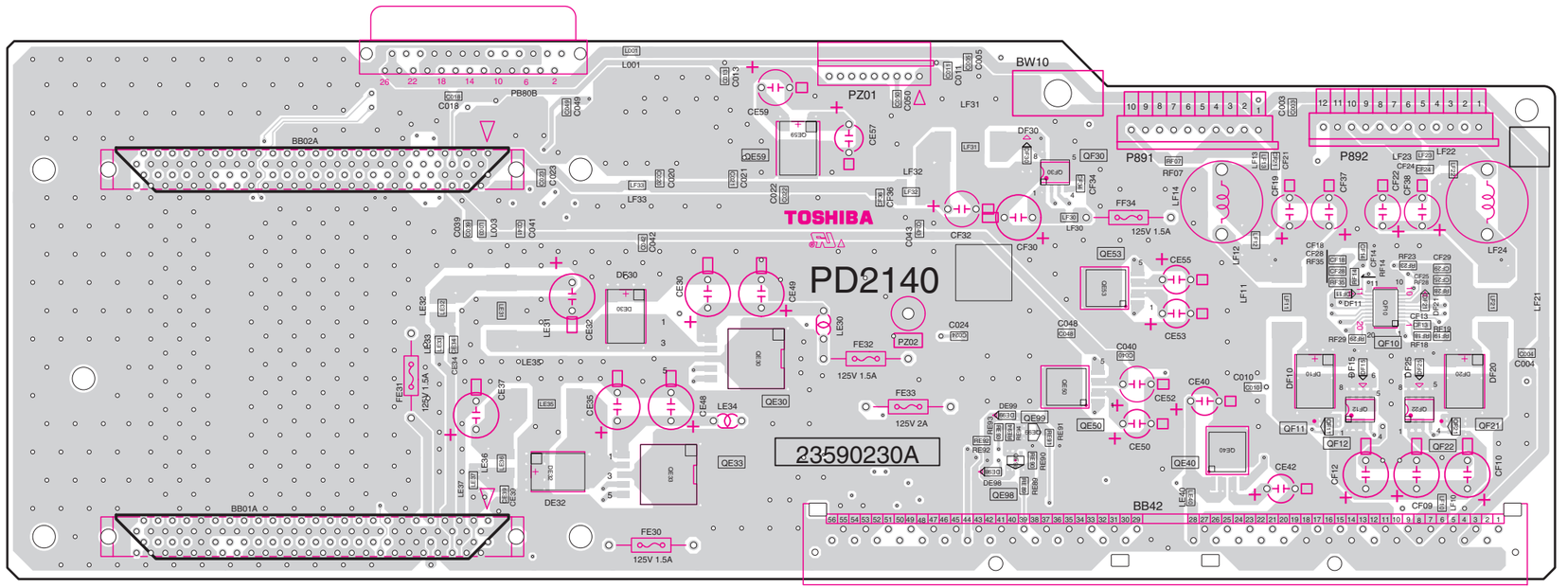
MOTHER BOARD PD2140A (U102)

BOTTOM (FOIL) SIDE



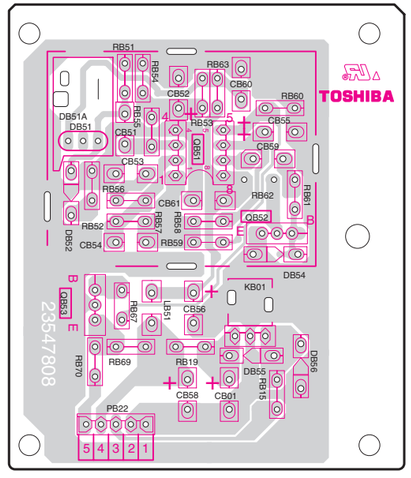
MOTHER BOARD PD2140A (U102)

TOP (COMPONENT) SIDE



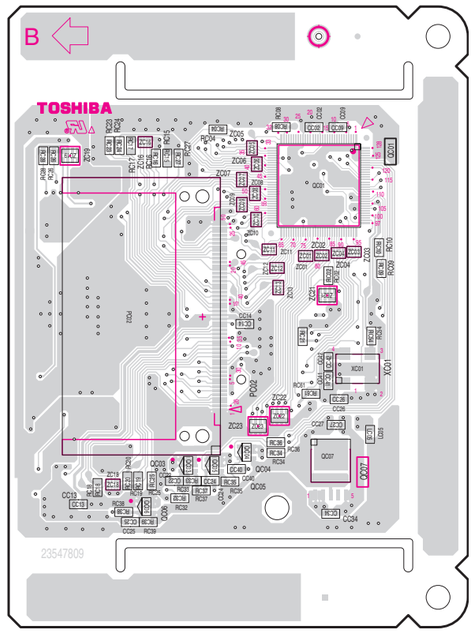
IR BLASTER BOARD PD2141A-2 (U105)

BOTTOM (FOIL) SIDE



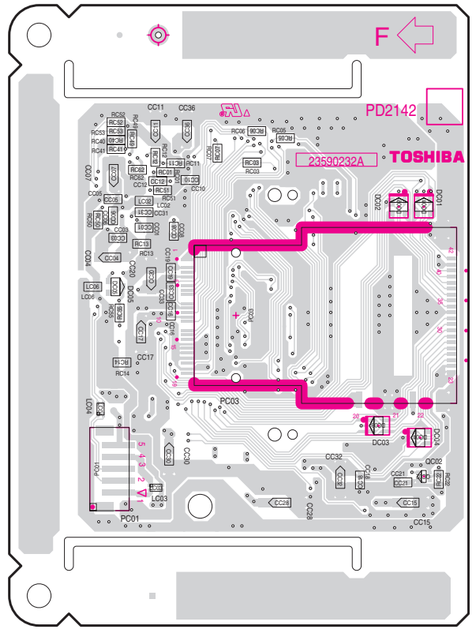
MULT CARD BOARD PD2142A (UC01)

BOTTOM (FOIL) SIDE



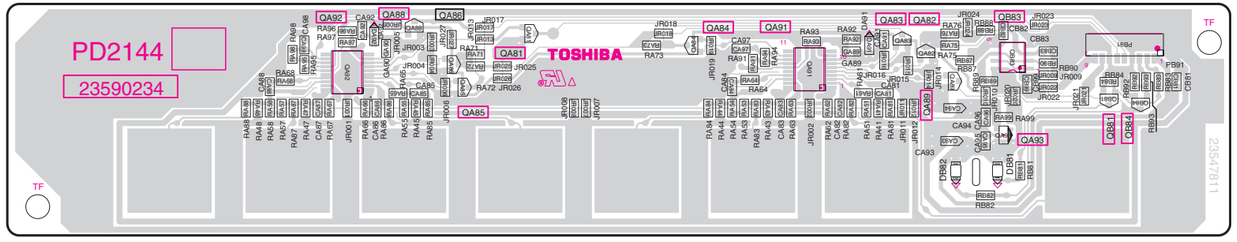
MULT CARD BOARD PD2142A (UC01)

TOP (COMPONENT) SIDE



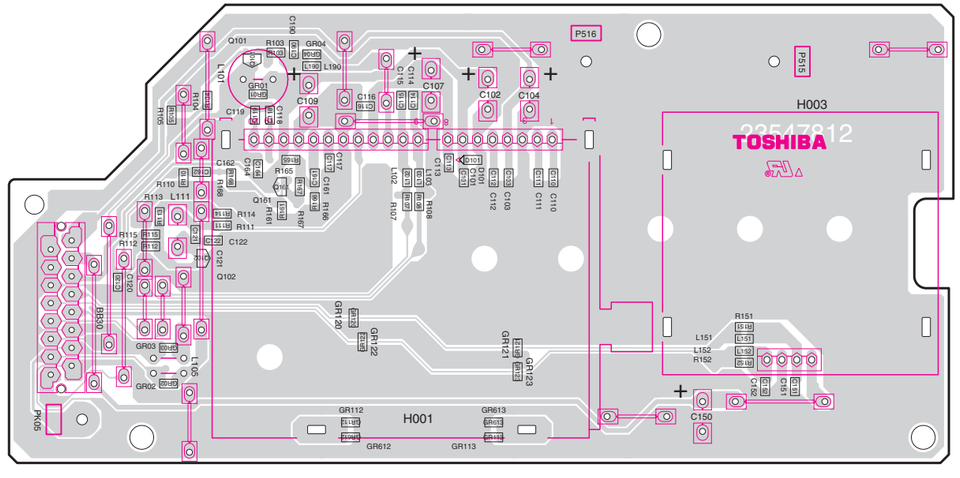
TOUCH PAD BOARD PD2144A (UA06)

BOTTOM (FOIL) SIDE



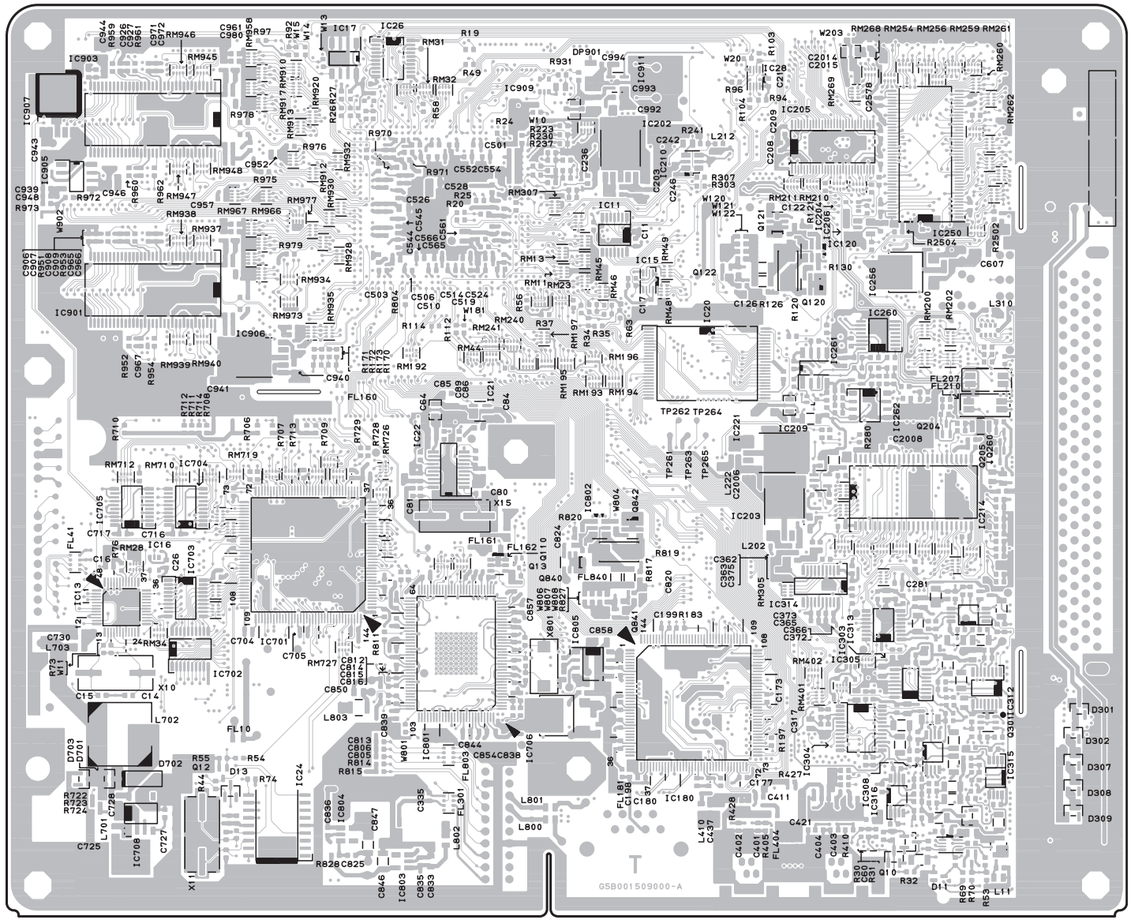
TUNER-RF BOARD PD2147A (U107)

BOTTOM (FOIL) SIDE



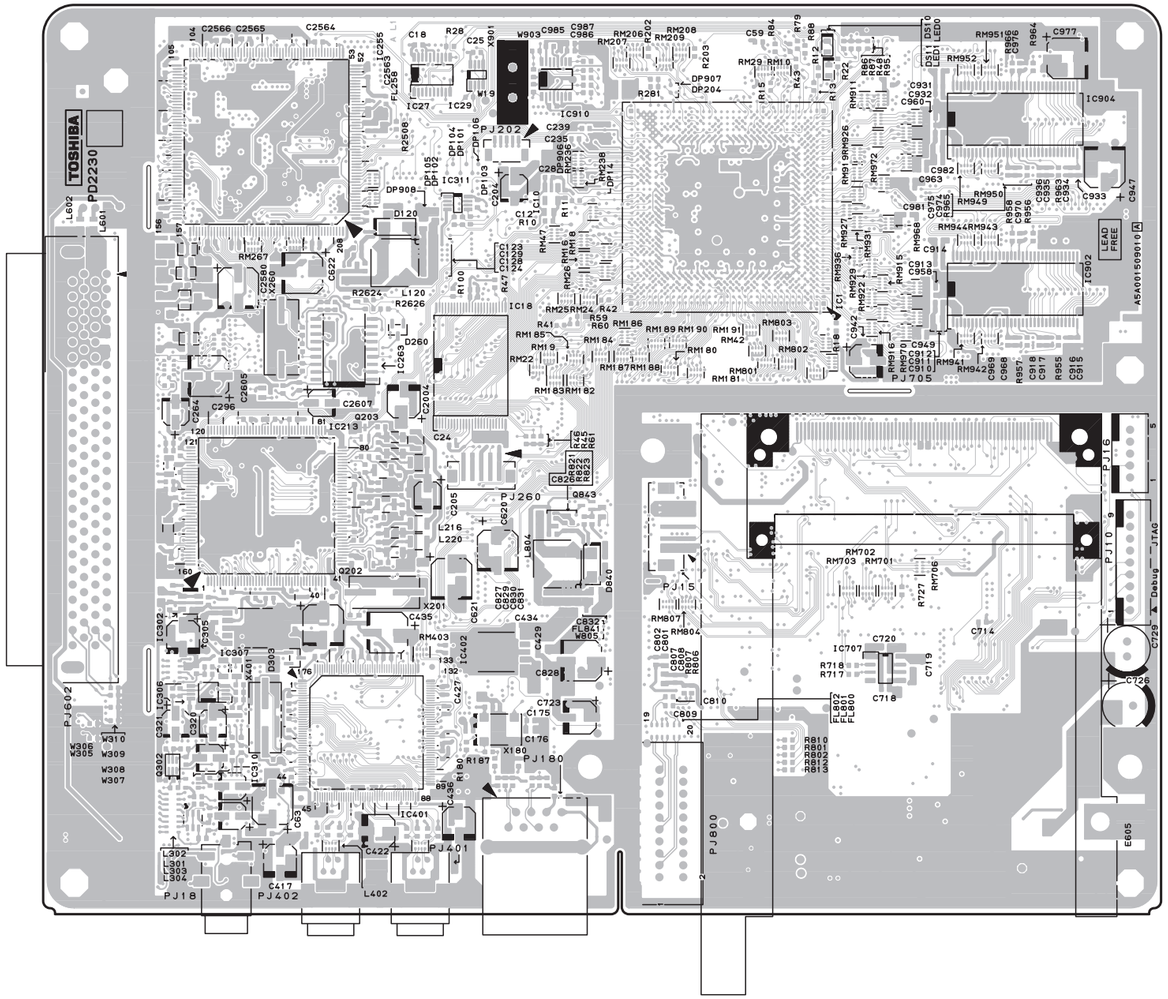
✻ SEINE DIGITAL BOARD PD2230 (UD02)

BOTTOM (FOIL) SIDE



✻ SEINE DIGITAL BOARD PD2230 (UD02)

TOP (COMPONENT) SIDE

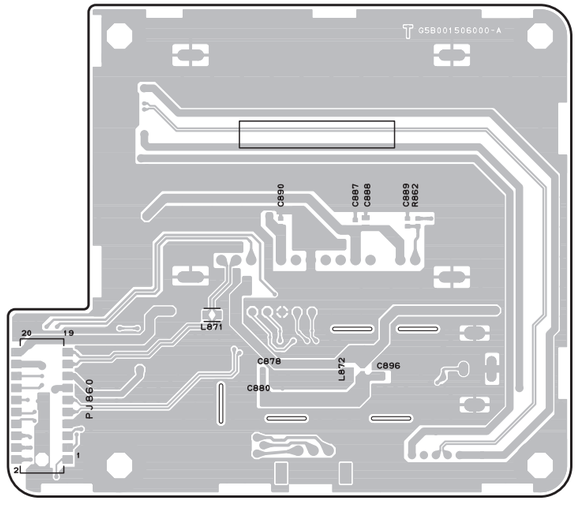


Note:

✻ UD02 Unit consists of two kind of the different boards; Combination of SEINE DIGATAL board (PD2230) and DIGITAL TUNER board (PD2232).

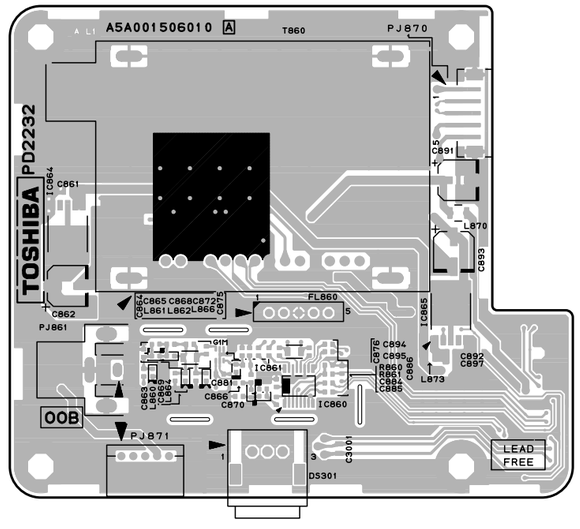
✻ DIGITAL TUNER BOARD PD2232 (UD02)

BOTTOM (FOIL) SIDE



✻ DIGITAL TUNER BOARD PD2232 (UD02)

TOP (COMPONENT) SIDE

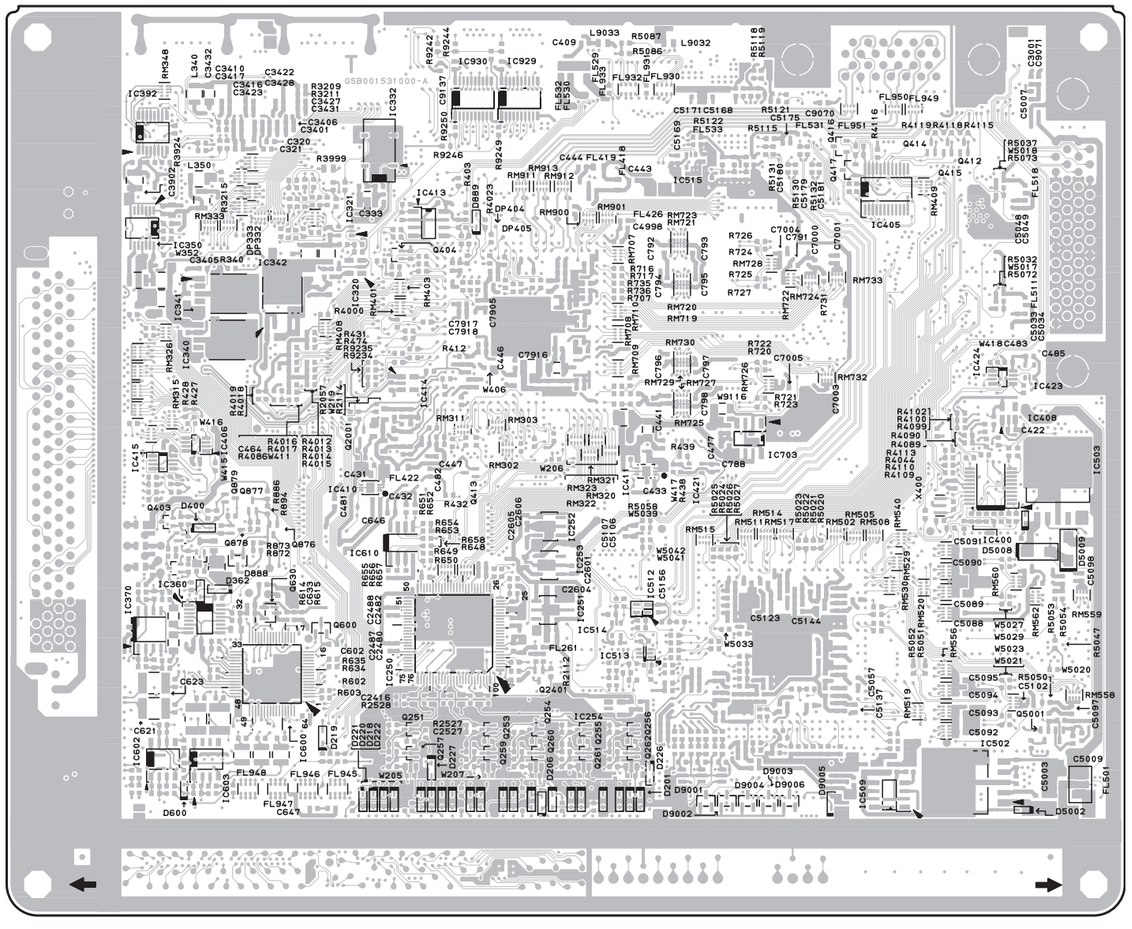


Note:

✻ UD02 Unit consists of two kind of the different boards; Combination of SEINE DIGATAL board (PD2230) and DIGITAL TUNER board (PD2232).

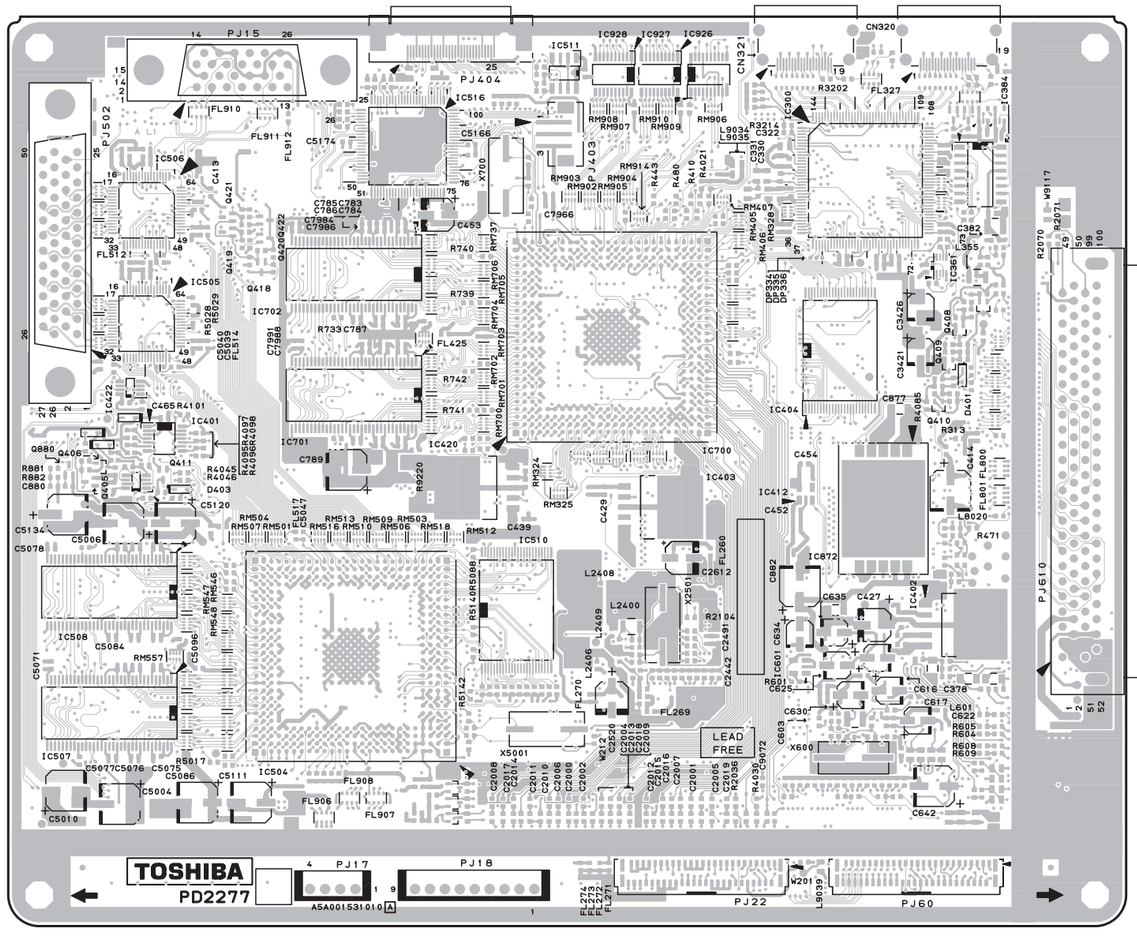
SIGNAL UNIT BOARD PD2277 (UD01)

BOTTOM (FOIL) SIDE



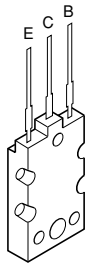
SIGNAL UNIT BOARD PD2277 (UD01)

TOP (COMPONENT) SIDE

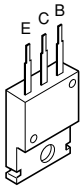


TERMINAL VIEW OF TRANSISTORS

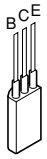
① 2SC5144
2SC5859



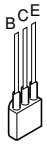
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



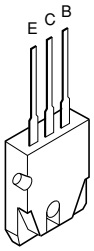
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



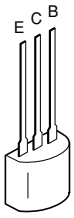
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



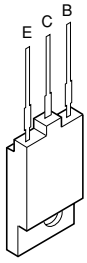
⑤ 2SA1788



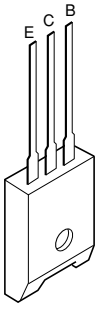
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SD2553
2SC5143



⑧ ON4409



SCHEMATIC DIAGRAM

MODEL : 62HM95

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in F, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor  Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

BACK_AV Circuit
- CONNECTORS [SHEET-1/6] 1/146
- AV Jacks [SHEET-2/6] 2/146
- CS-SW [SHEET-3/6] 3/146
- Audio Select [SHEET-4/6] 4/146
- IR [SHEET-5/6] 5/146
- Audio OUT [SHEET-6/6] 6/146

FRONT_AV Circuit 7/146

FRONT_KEY Circuit
- TOUCH_CONTROL_PANEL 8/146

RF_SW/TIF Circuit 9/146

IR_BRASTER Circuit 10/146

MAIN_POWER Circuit
- [SHEET-1/3] 11/146
- REG & PROTECT & SW [SHEET-2/3] 12/146
- CONNECTOR [SHEET-3/3] 13/146

MOTHER Circuit
- CONNECTOR [SHEET-1/2] 14/146
- REG [SHEET-2/2] 15/146

SUB POWER Circuit 16/146

MULTI_CARD Circuit
- (1/4) [SHEET-1/4] 17/146
- (2/4) [SHEET-2/4] 18/146
- (3/4) [SHEET-3/4] 19/146
- (4/4) [SHEET-4/4] 20/146

SIGNAL
- FLI8532 ANALOG_IN [SHEET-200] 21/146
- TC90101FG [SHEET-205] 22/146
- COLOR-DEC-REG [SHEET-206] 23/146
- FLI8532 DIGITAL_IN_A [SHEET-300] 24/146
- FLI8532 DIGITAL_IN_B [SHEET-301] 25/146
- HDMI# 1 (Link, I2C) [SHEET-302] 26/146
- HDMI# 2 (Video/ Audio) [SHEET-303] 27/146
- HDMI# 3 (POWER) [SHEET-304] 28/146
- HDMI AUDIO_ PLL [SHEET-305] 29/146
- HDMI AUDIO_ DAC [SHEET-306] 30/146
- HDMI AUDIO_ OUT [SHEET-307] 31/146
- HDMI CONTROLLER [SHEET-308] 32/146
- HDMI EEPROM2 [SHEET-309] 33/146
- FLI8532 MICRO I/O [SHEET-400] 34/146
- FLI8532 OCM MEMORY I/F [SHEET-401] 35/146
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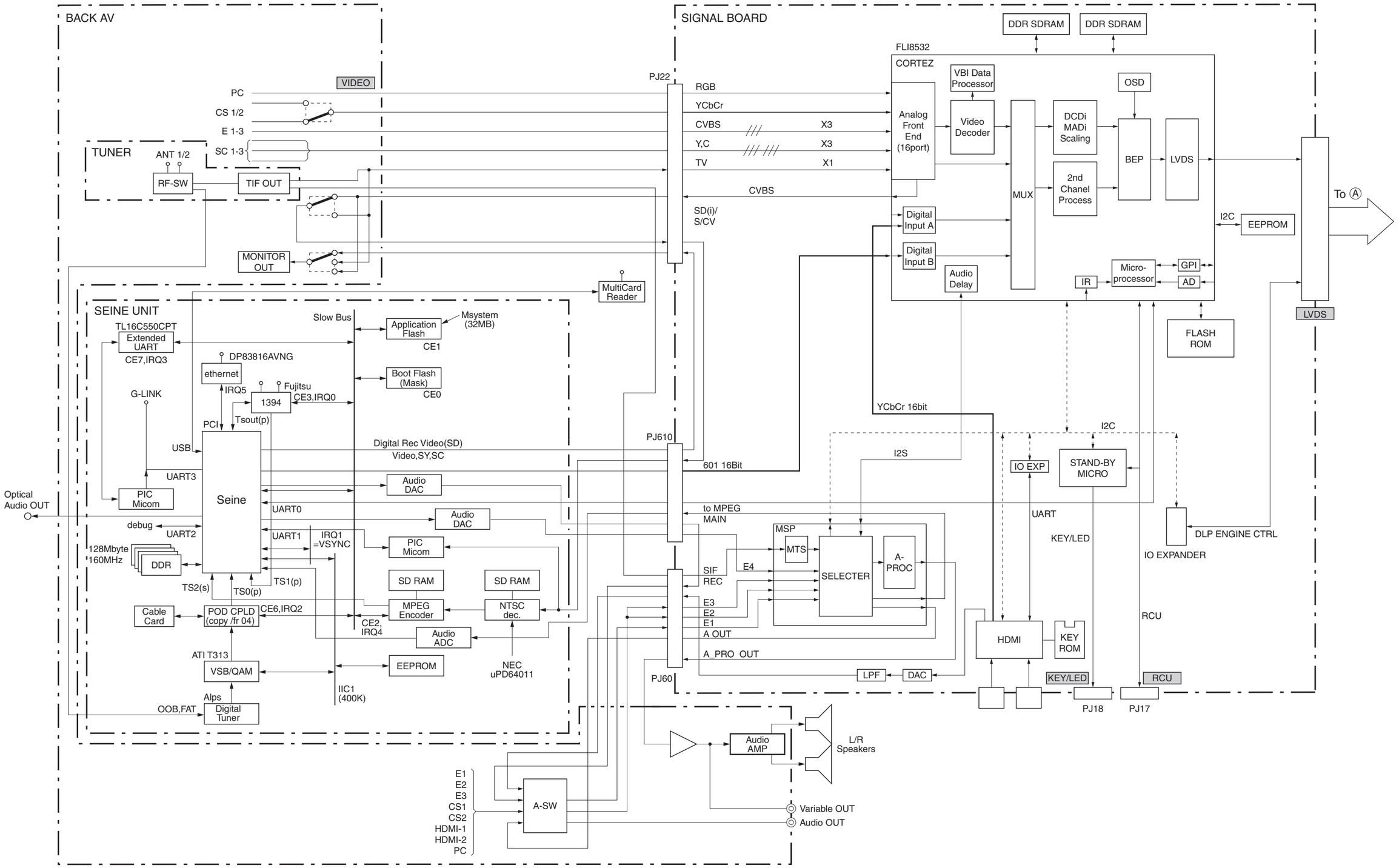
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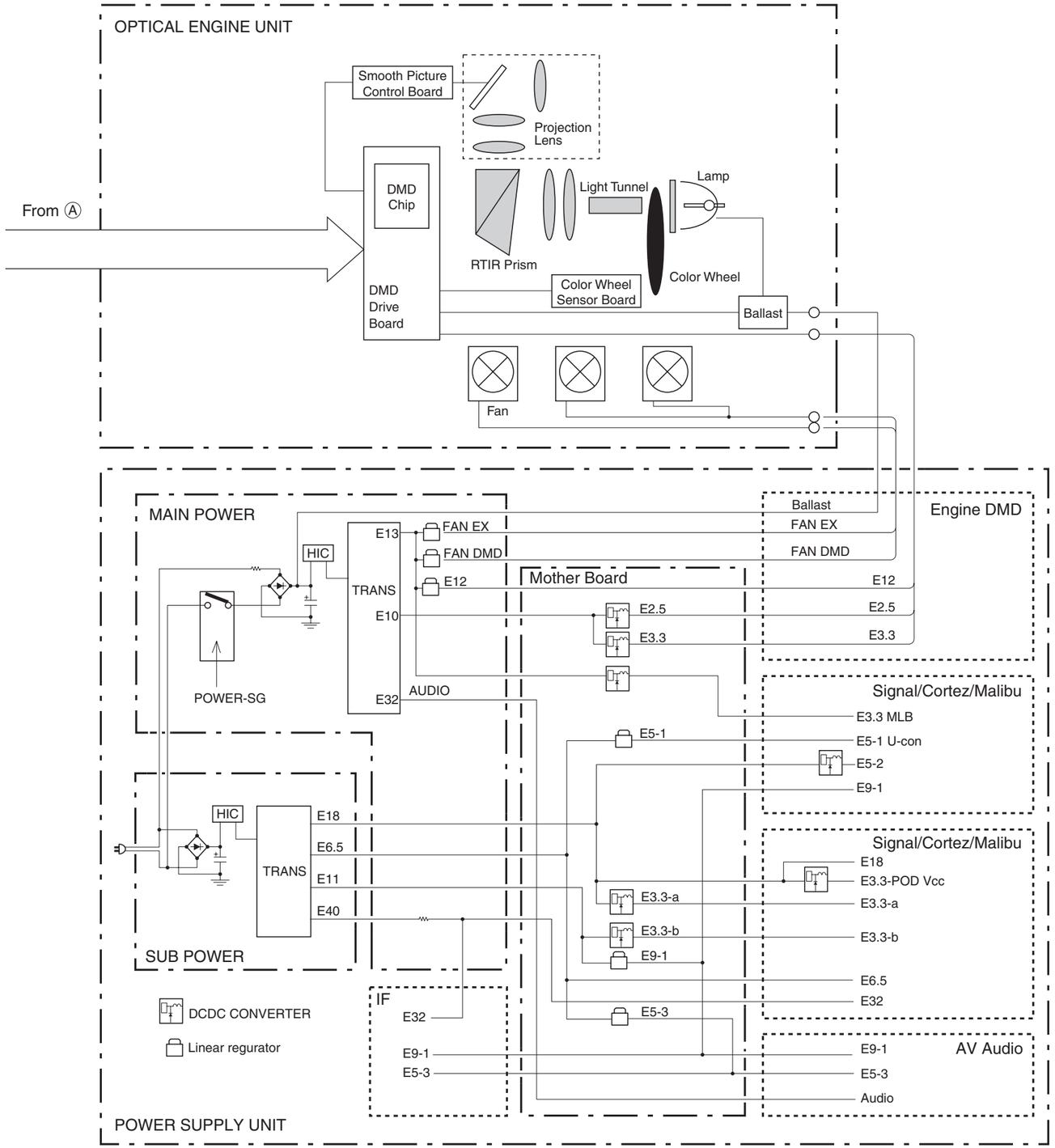
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CIRCUIT BLOCK DIAGRAM




OPTICAL ENGINE UNIT
Smooth Picture Control Board
Projection Lens
DMD Chip
From Ⓐ
Light Tunnel
Lamp
RTIR Prism
Color Wheel
Color Wheel Sensor Board
DMD Drive Board
Ballast
Fan
MAIN POWER
HIC
E13
FAN EX
FAN DMD
E12
TRANS
E10
E32
AUDIO
POWER-SG
Mother Board
E2.5
E3.3
E5-1
E5-2
E9-1
E3.3-a
E3.3-b
E5-3
E6.5
E32
Engine DMD
Ballast
FAN EX
FAN DMD
E12
E2.5
E3.3
Signal/Cortez/Malibu
E3.3 MLB
E5-1 U-con
E5-2
E9-1
Signal/Cortez/Malibu
E18
E3.3-POD Vcc
E3.3-a
E3.3-b
E6.5
E32
AV Audio
E9-1
E5-3
Audio
HIC
E18
E6.5
E11
E40
TRANS
SUB POWER
IF
E32
E9-1
E5-3
DCDC CONVERTER
Linear regurator
POWER SUPPLY UNIT

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 62HM95

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in F, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor  Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

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FRONT_KEY Circuit
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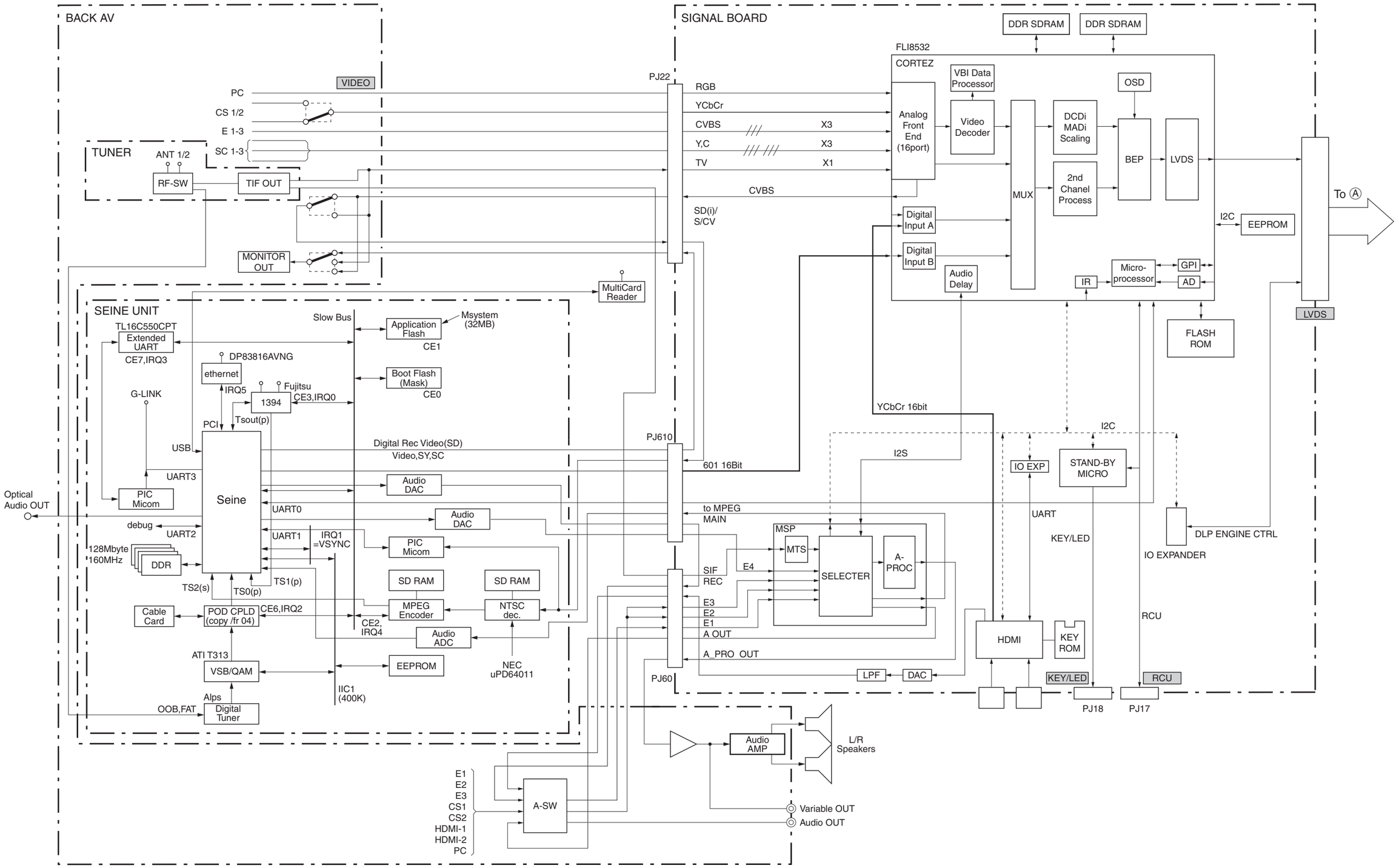
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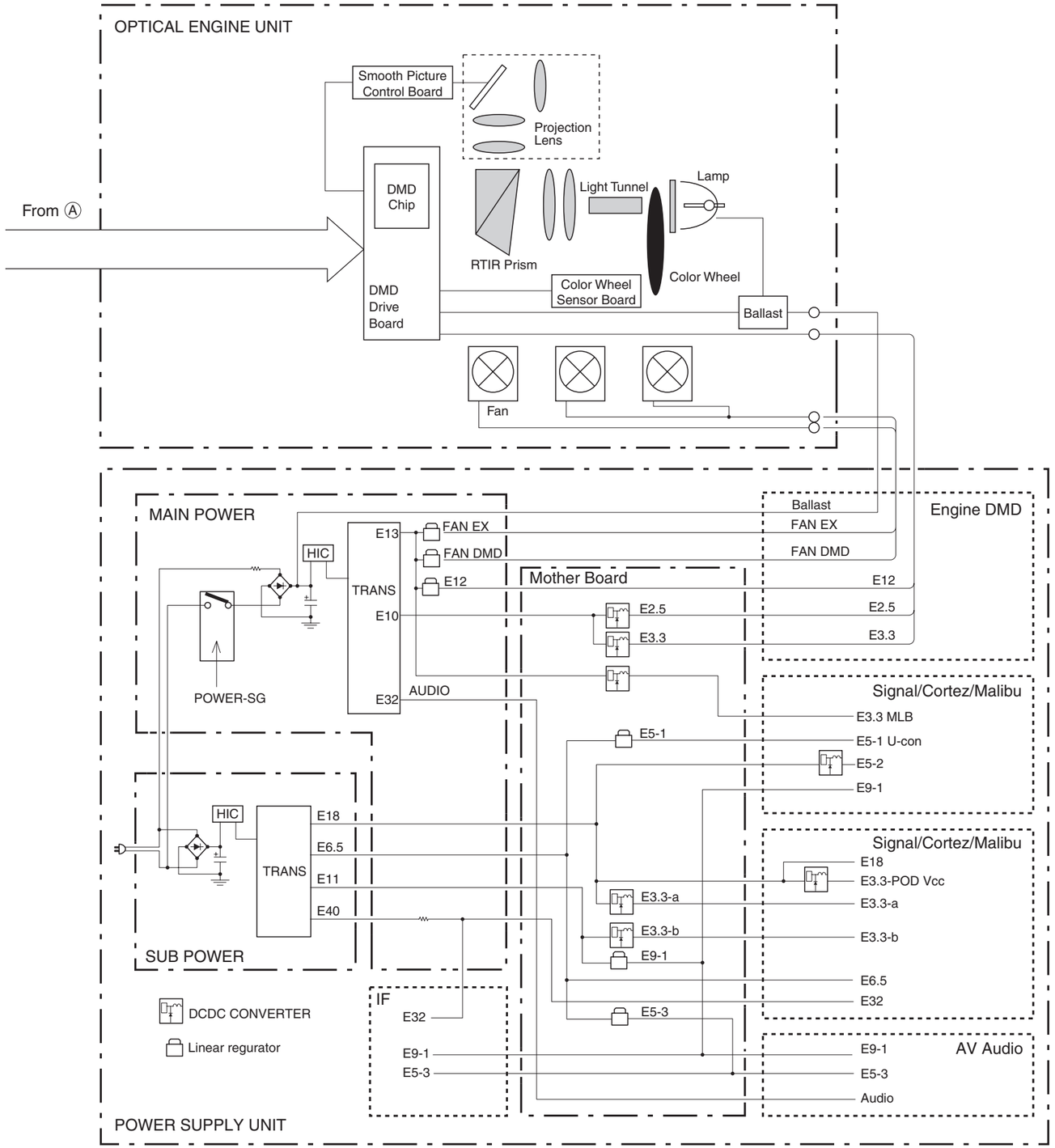
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CIRCUIT BLOCK DIAGRAM




OPTICAL ENGINE UNIT
Smooth Picture Control Board
Projection Lens
From Ⓐ
DMD Chip
Light Tunnel
Lamp
RTIR Prism
Color Wheel
DMD Drive Board
Color Wheel Sensor Board
Ballast
Fan
MAIN POWER
HIC
E13
FAN EX
FAN DMD
E12
TRANS
E10
E32
AUDIO
POWER-SG
Mother Board
E2.5
E3.3
E5-1
E5-2
E9-1
E3.3-a
E3.3-b
E5-3
E6.5
E32
SUB POWER
HIC
E18
E6.5
E11
E40
TRANS
IF
E32
E9-1
E5-3
DCDC CONVERTER
Linear regurator
Engine DMD
Ballast
FAN EX
FAN DMD
E12
E2.5
E3.3
Signal/Cortez/Malibu
E3.3 MLB
E5-1 U-con
E5-2
E9-1
Signal/Cortez/Malibu
E18
E3.3-POD Vcc
E3.3-a
E3.3-b
E6.5
E32
AV Audio
E9-1
E5-3
Audio
POWER SUPPLY UNIT

TO SIGNAL BOARD

PJ22A
FFC_0.5mm_50P/FH12A-50S-0.5SV

PJ60A
FFC_0.5mm_50P/FH12A-50S-0.5SV

PB60
10P_2.5mm_1.5A_Beige

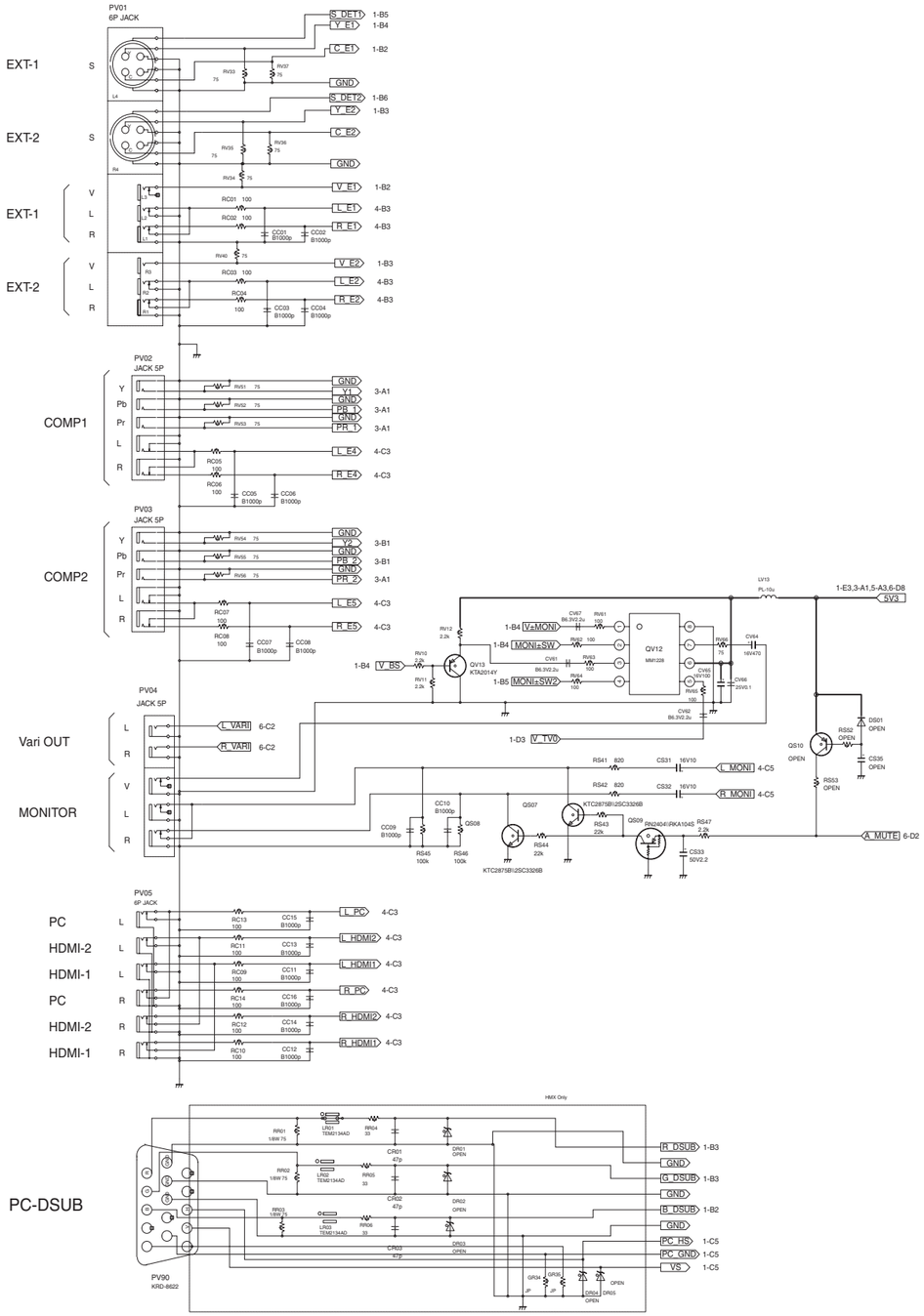
to FRONT (EXT-3)

PB03B
1P
TO IF BOARD
(TUNER GND)

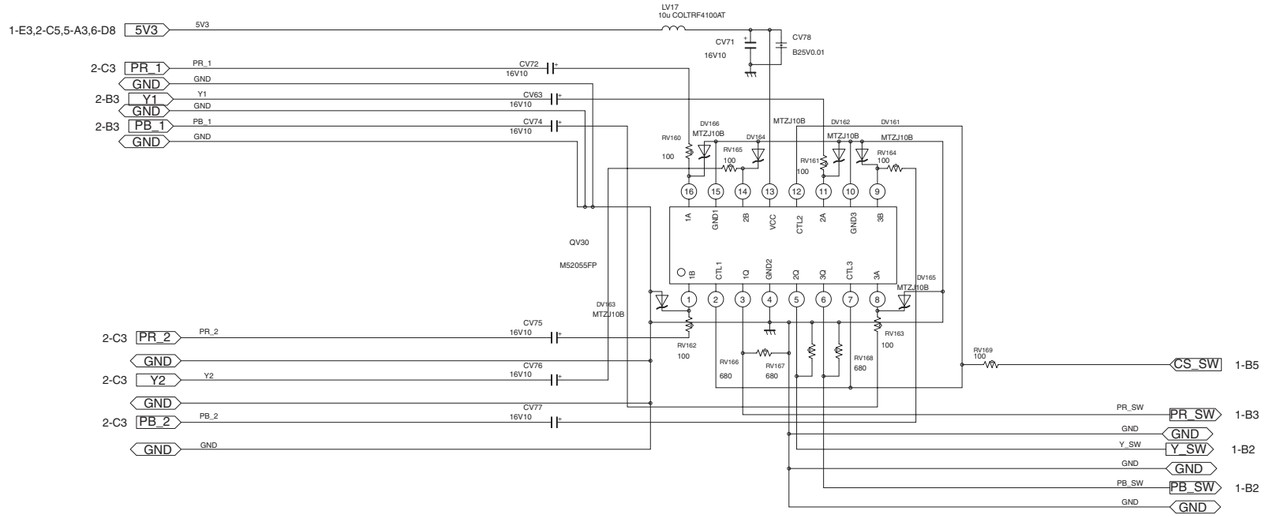
PB80A
26P(AF)

to Mother Board

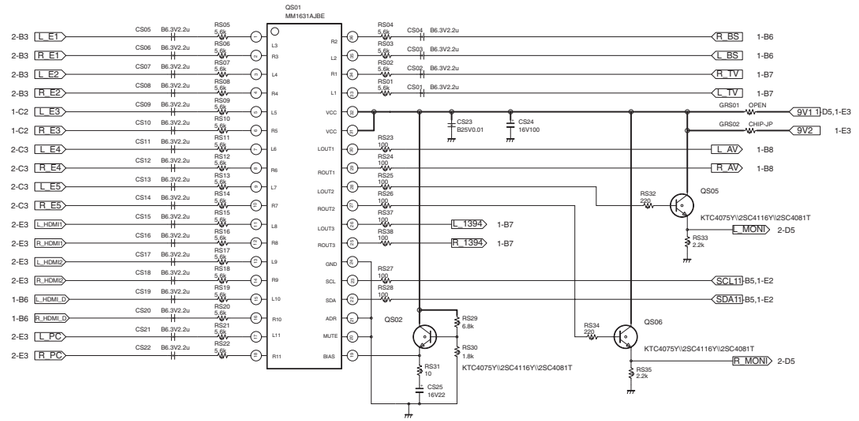
62HM95
BACK_AV (CONNECTORS)
SHEET-1/6



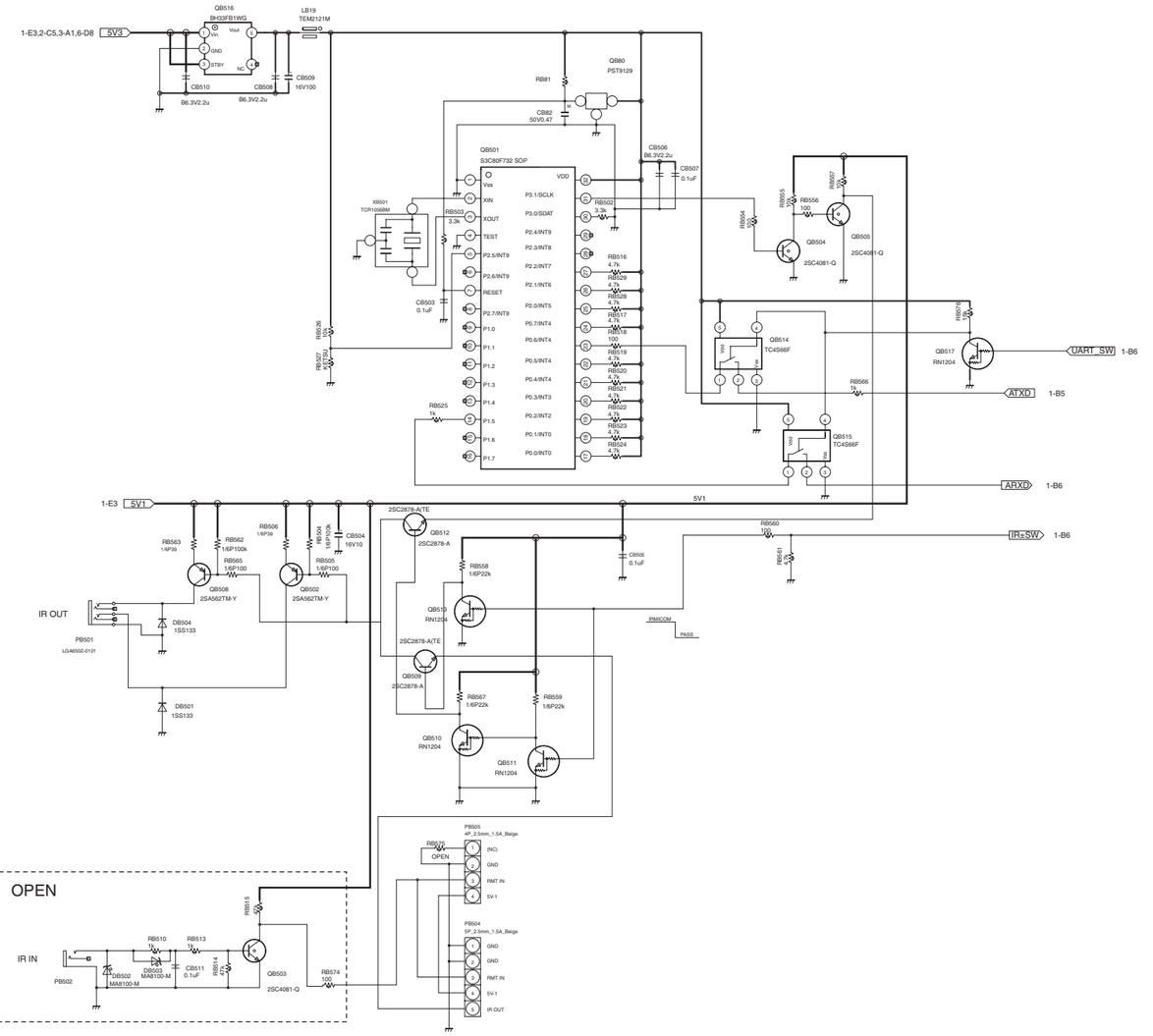
62HM95
BACK_AV (AV Jacks)
SHEET-2/6



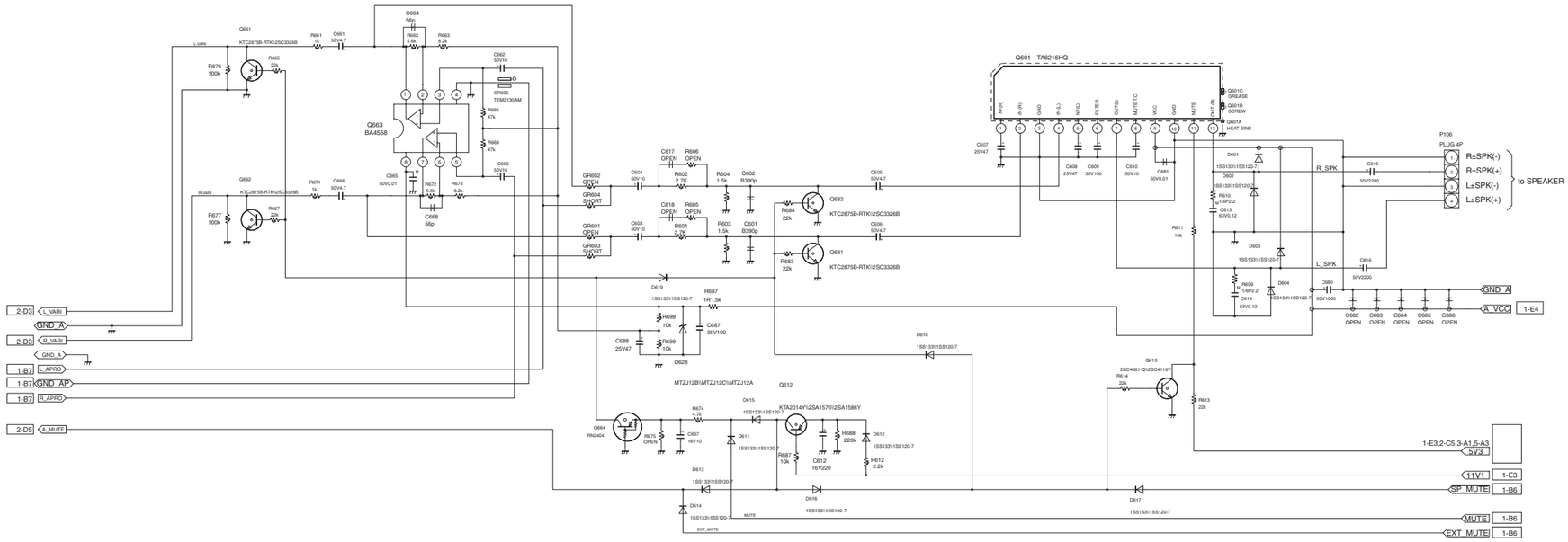
62HM95
BACK_AV (CS-SW)
SHEET-3/6



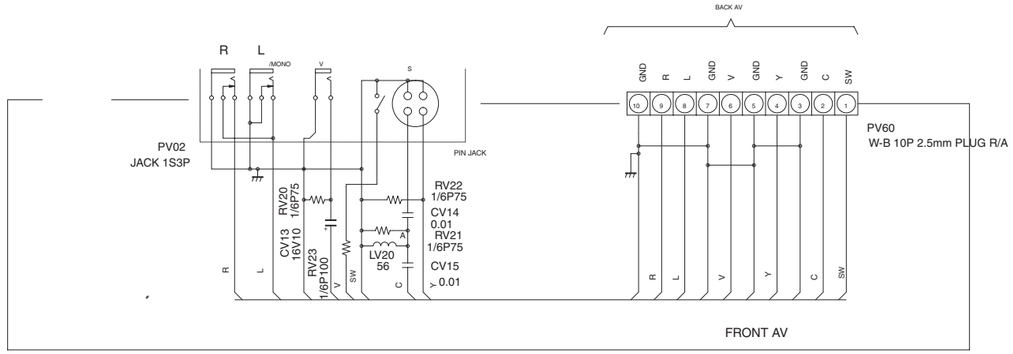
62HM95
BACK_AV (Audio Select)
SHEET-4/6

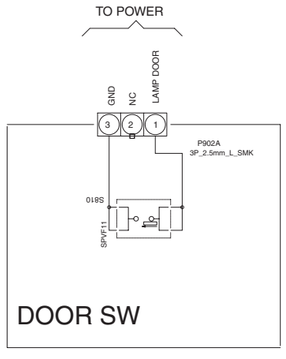


62HM95
BACK_AV (IR)
SHEET-5/6

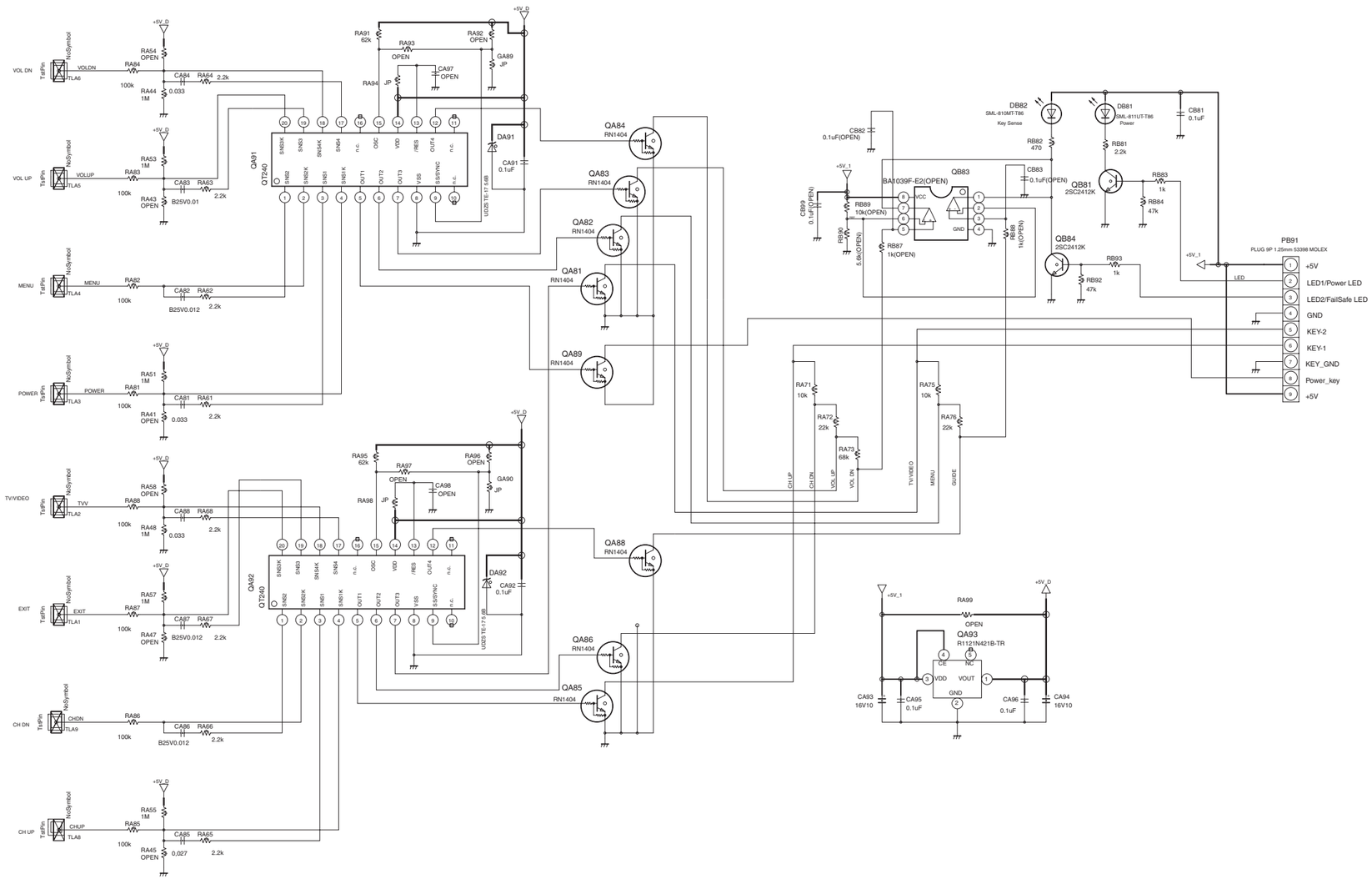


62HM95
BACK_AV (Audio OUT)
SHEET-6/6

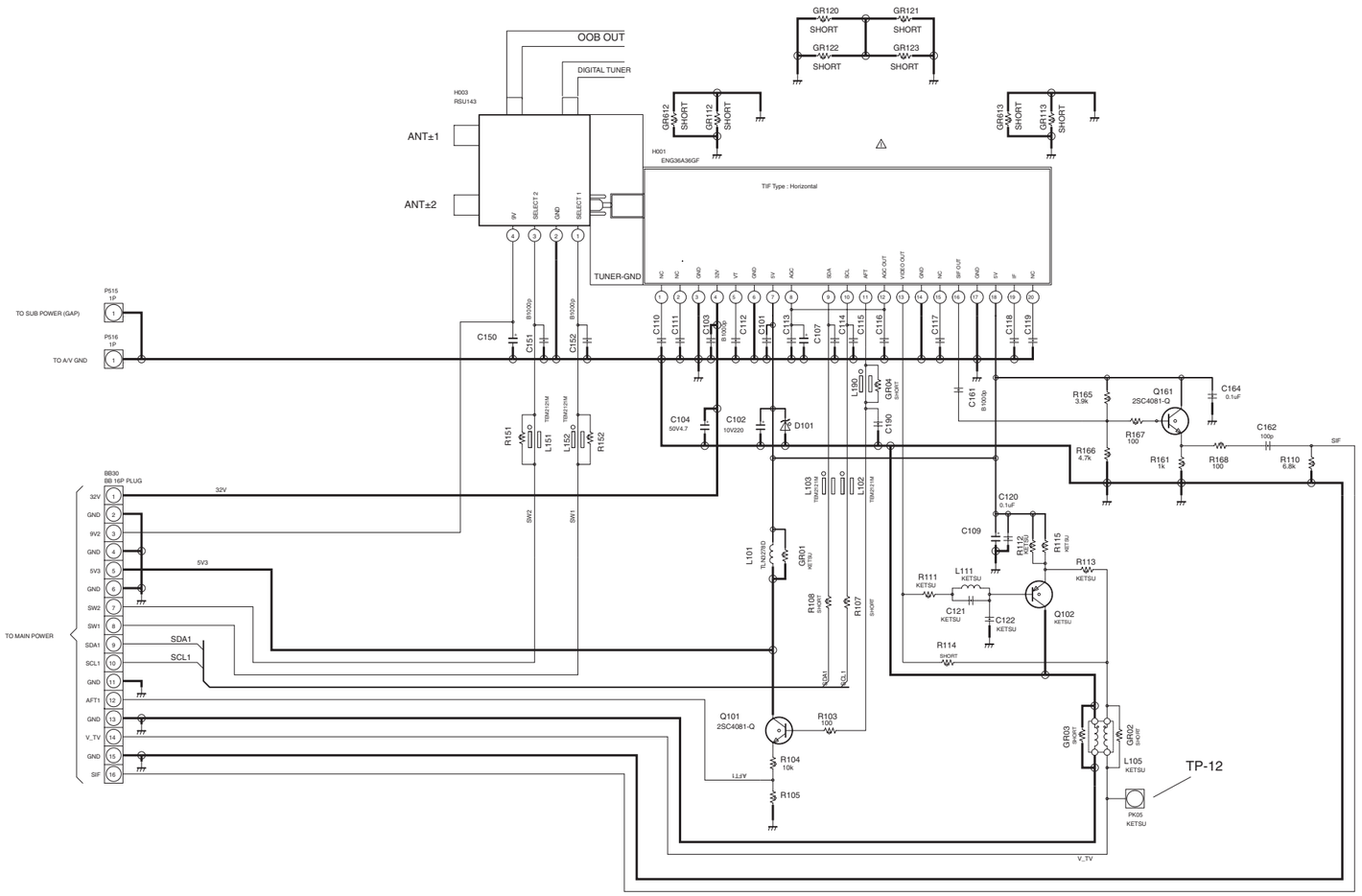




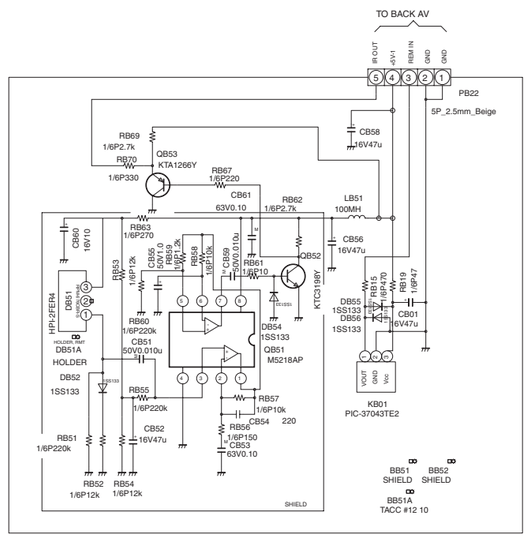
62HM95
FRONT_AV



62HM95
FRONT_KEY (TOUCH_CONTROL_PANEL)



62HM95
RF_SW/TIF



62HM95
IR_BRASTER

LIVE AREA

BALLAST

Thermo BREAKER

AC IN

AUDIO_VCC 3-A5

AUDIO_GND 3-A5

13.5V 2-D1,3-B5

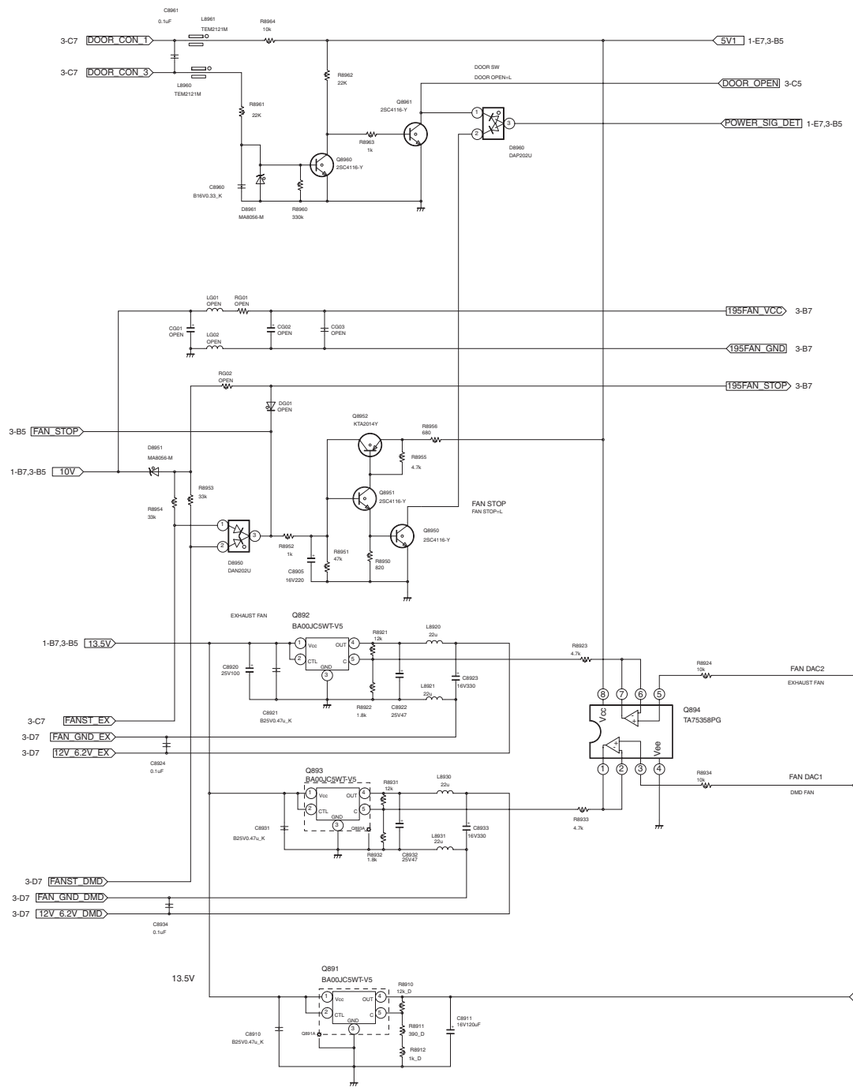
10V 2-C1,3-B5

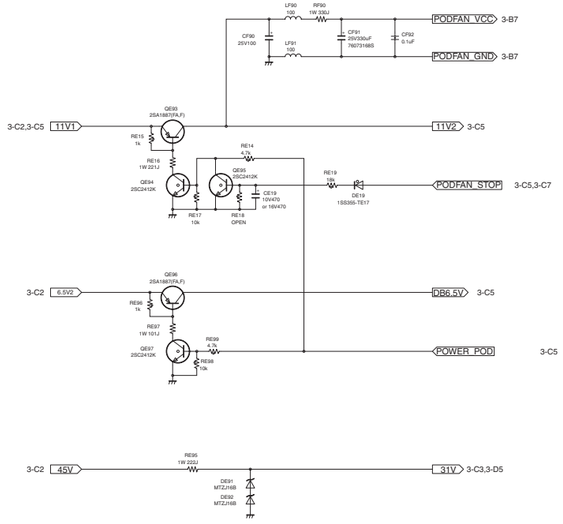
AC_DET 3-B5

5V1 2-A4,3-B5

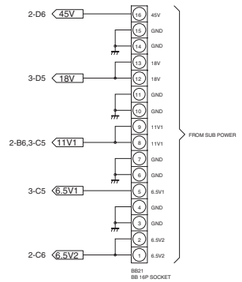
POWER_SIG_DET 2-B4,3-B5

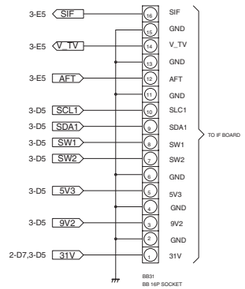
62HM95
MAIN_POWER
SHEET-1/3

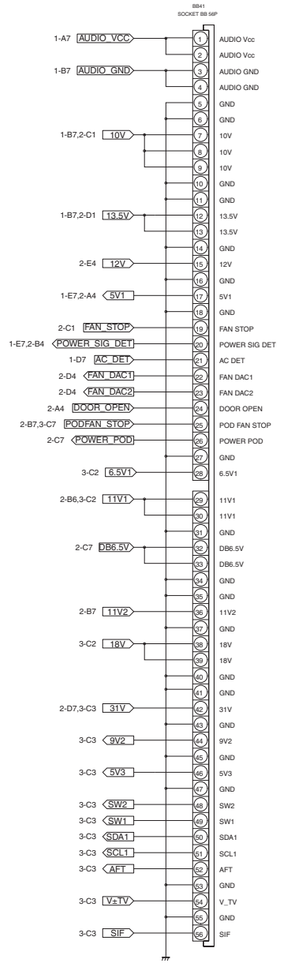




62HM95
MAIN_POWER (REG & PROTECT & SW)
SHEET-2/3

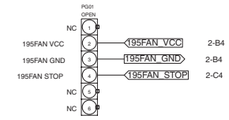




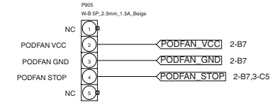


OPEN

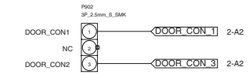
195 FAN



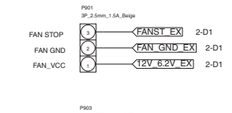
POD FAN



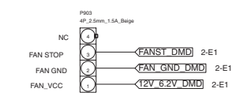
DOOR SWITCH



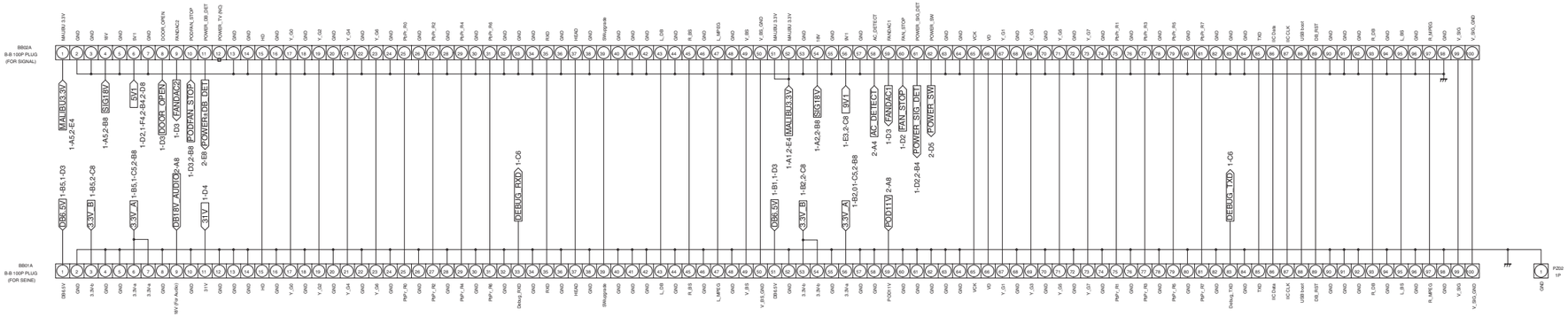
EXHAUST FAN

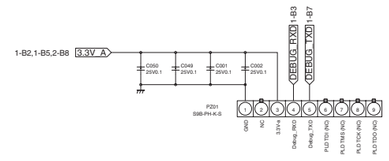


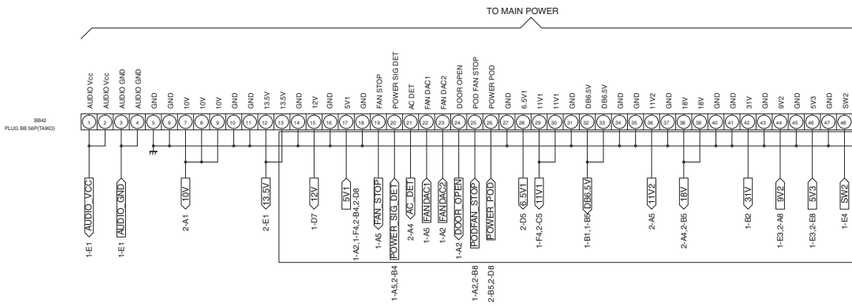
DMD FAN

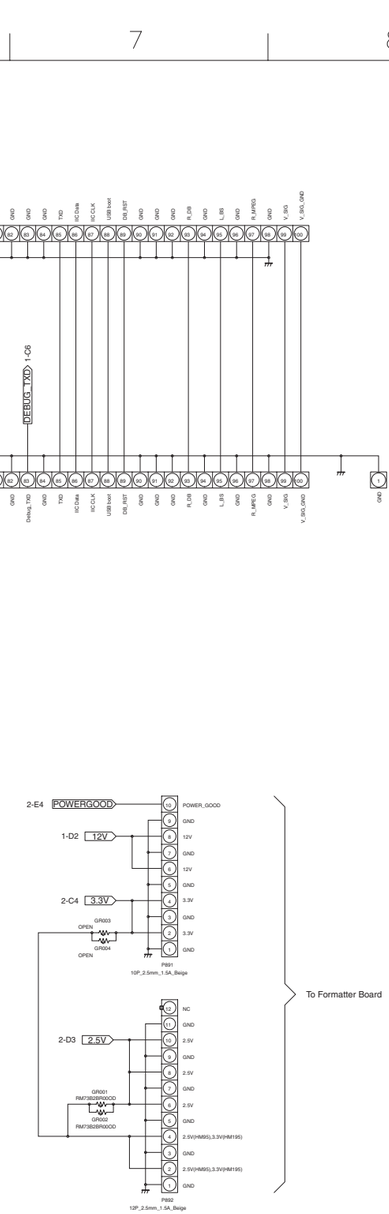


62HM95
MAIN_POWER (CONNECTOR)
SHEET-3/3









62HM95
MOTHER (CONNECTOR)
SHEET-1/2

1-D2 10V

LF10 TEM2126AM

CF12 16V680uF

CF10 16V680uF

CF09 16V680uF

CF11 0.1uF

QF10 BD9851EFV

SEL1 RT CT NONO2 INV2 FB2 DTC2 PVCC2 OUT2 PGND

GND STB VCC VREF INV1 FB1 SCP DTC1 PVCC1 OUT1

RF23 470k

RF25 15k_D

RF24 10k_D

CF29 B6.3V100u

CF25 B6.3V100u

RF28 OPEN

RF18 22k_D

RF19 470_J

CF13 470p

CF26 B25V0.01

RF26 6.8k

DF21 RB521S-30

RF22 47k_D

RF21 68k_D

RF20 6.8k_D

RF27 3.3k

CF27 B1000p

CF14 B16V1.0u

RF14 470k

CF17 0.047

DF11 RB521S-30

CF18 B6.3V10u

CF28 B6.3V10u

RF35 680k

RF29 3.3k

RF15 6.8k

CF16 B4700p

RF12 47k_D

RF13 1.5k

CF15 B3300p

RF11 100k_D

RF10 12k_D

1-D2 AC_DET

DE98 1SS355-TE17

1-D3,2-B5 18V

RE89 22K

RE90 10k

QE98 BD4746G

INC SUB GND VCC Vout

AC_DETECT 1-A5

5V1 1-A2,1-D2,1-F4,2-D8

DE99 1SS355-TE17

RE91 33k

RE93 22K

RE94 10k

QE99 KTC4075Y-RTK

RE92 100K

POWER_SIG_DET 1-A5,1-D2

RF33 33

QF11 RSQ035P03TR

QF12 OPEN

SENSE Vo VIN Vc GND

LF11 TLN3561AH

LF14 OPEN

LF12 TLN3601AH

LF13 TEM2126AM

DMD 3.3V

3.3V 1-D7

DF15 RSX301L-30

CF19 6.3V300u

CF57 OPEN

CF20 B6.3V10u

DF12 PTZ 4.7B

CF31 B6.3V10u

DF10 OPEN

QF21 RSQ035P03TR

QF22 OPEN

RF34 33

LF21 TLN3561AH

LF24 OPEN

LF22 TLN3601AH

LF23 TEM2126AM

DMD 2.5V

2.5V 1-E7

DF13 RSX301L-30

CF22 6.3V300u

CF38 OPEN

CF23 B6.3V10u

DF22 PTZ 4.7B

CF24 B6.3V10u

DF20 OPEN

RF07 1.2k

RF09 10k

RF08 15k

QF05 BD4746G

NC SUB GND VCC Vout

POWERGOOD 1-D7

1-D2 13.5V

FF34 OPEN

LF30 OPEN

QF30 OPEN

Vc VIN Vo SENSE GND

CF35 OPEN

DF31 OPEN

LF31 OPEN

CF30 OPEN

CF31 OPEN

RF30 OPEN

DF32 OPEN

RF31 OPEN

CF32 OPEN

CF33 OPEN

RF32 OPEN

CF34 OPEN

LF32 OPEN

LF33 OPEN

C020 25V0.1

CF36 OPEN

C021 25V0.1

C022 25V0.1

C023 25V0.1

MALIBU 3.3V

MALIBU3.3V 1-A1,1-A5

1-D3 11V2

FE30 125V_1.5A

C027 25V0.1

C028 25V0.1

POD11V 1-B5

LE59 TEM2130AM

QE59 BA90BC0FP

Vcc OUT GND

9V2 1-D4,1-E3

C024 25V0.1

C025 25V0.1

C026 25V0.1

CE57 25V47

CE58 B25V0.47u_K

CE59 16V120uF 76073151S

C029 25V0.1

C030 25V0.1

C051 25V0.1

DB18V_AUDIO 1-B2

L002 TEM2130AM

FE31 125V_1.5A

SIG18V 1-A2,1-A5

C036 25V0.1

C035 25V0.1

C034 25V0.1

C032 25V0.1

C033 25V0.1

C031 25V0.1

1-D3,2-A4 18V

FE32 125V_1.5A

LE30 10

QE30 PQ1CY1032Z

Vin Vsoft Vout Oadj COM

LE31 TLN3586AH

RE32 180_D

RE31 1.5k_D

RE30 1k_D

LE32 TLN3601AH

LE33 TEM2131AM

3.3V_A 1-B2,1-B5,1-C5

RE34 47k

RE33 1k

CE31 0.1uF

RE37 33k

RE36 10k

RE35 10k

QE32 KTC4075Y-RTK

QE31 KTC4075Y-RTK

CE30 35V220uF 76073183S

CE49 35V220uF 76073183S

DE30 RB095B-40

CE32 16V470u 76073153S

CE33 0.1uF

DE31 MA8047-M

CE34 B25V0.01

RE59 3.3k

PODFAN_STOP 1-A2,1-D3

1-D3,2-D8 POWER_POD

C037 25V0.1

C038 25V0.1

1-D3,1-F4 11V1

FE33 125V_2A

LE34 10

QE33 PQ1CY1032Z

LE35 TLN3586AH

RE50 180_D

RE39 1.5k_D

RE38 1k_D

LE36 TLN3601AH

LE37 TEM2131AM

3.3V_B 1-B2,1-B5

RE52 47k

RE51 1k

CE36 0.1uF

RE55 33k

RE54 10k

RE53 10k

QE35 KTC4075Y-RTK

QE34 KTC4075Y-RTK

CE35 25V330uF 76073168S

CE48 25V330uF 76073166S

DE32 RB095B-30

CE37 16V470u 76073153S

CE38 0.1uF

DE33 MA8047-M

CE39 B25V0.01

LE38 TEM2130AM

QE50 BA00BC0WFP-E2

Vcc CTL GND OUT ADJ

9V1 1-A5,1-E3

L003 TEM2130AM

RE24 10k

RE23 47k

RE30 33k

RE21 10k

RE22 10k

QE52 KTC4075Y-RTK

QE51 KTC4075Y-RTK

CE50 25V47

CE51 B25V0.47u_K

RE58 12k_D

RE57 82k_D

RE56 15k_D

CE52 16V120uF 76073151S

1-A5 POWER_SW

C048 25V0.1

C043 25V0.1

C042 25V0.1

C041 25V0.1

C040 25V0.1

C039 25V0.1

1-D3 6.5V1

LE40 TEM2130AM

QE40 BA00BC0WFP-E2

Vcc CTL GND OUT ADJ

5V1 1-A2,1-D2,1-F4,2-B4

RE41 82k_D

RE40 27k_D

CE40 16V47

CE41 B16V0.33_K

CE42 10V100u 76073137S

QE21 KTA2014Y

RE42 10k

RE43 22K

QE22 KTC4075Y-RTK

RE45 22K

RE44 10k

POWER_POD 1-D3,2-B5

POWER_DB_DET 1-A2

QE53 BA00BC0WFP-E2

Vcc CTL GND OUT ADJ

5V3 1-D4,1-E3

RE29 10k

RE28 47k

RE25 33k

RE26 10k

RE27 10k

QE55 KTC4075Y-RTK

QE54 KTC4075Y-RTK

CE53 16V47

CE54 B16V0.33_K

RE49 1k_D

RE48 100k_D

RE47 33k_D

CE55 10V100u 76073137S

C044 25V0.1

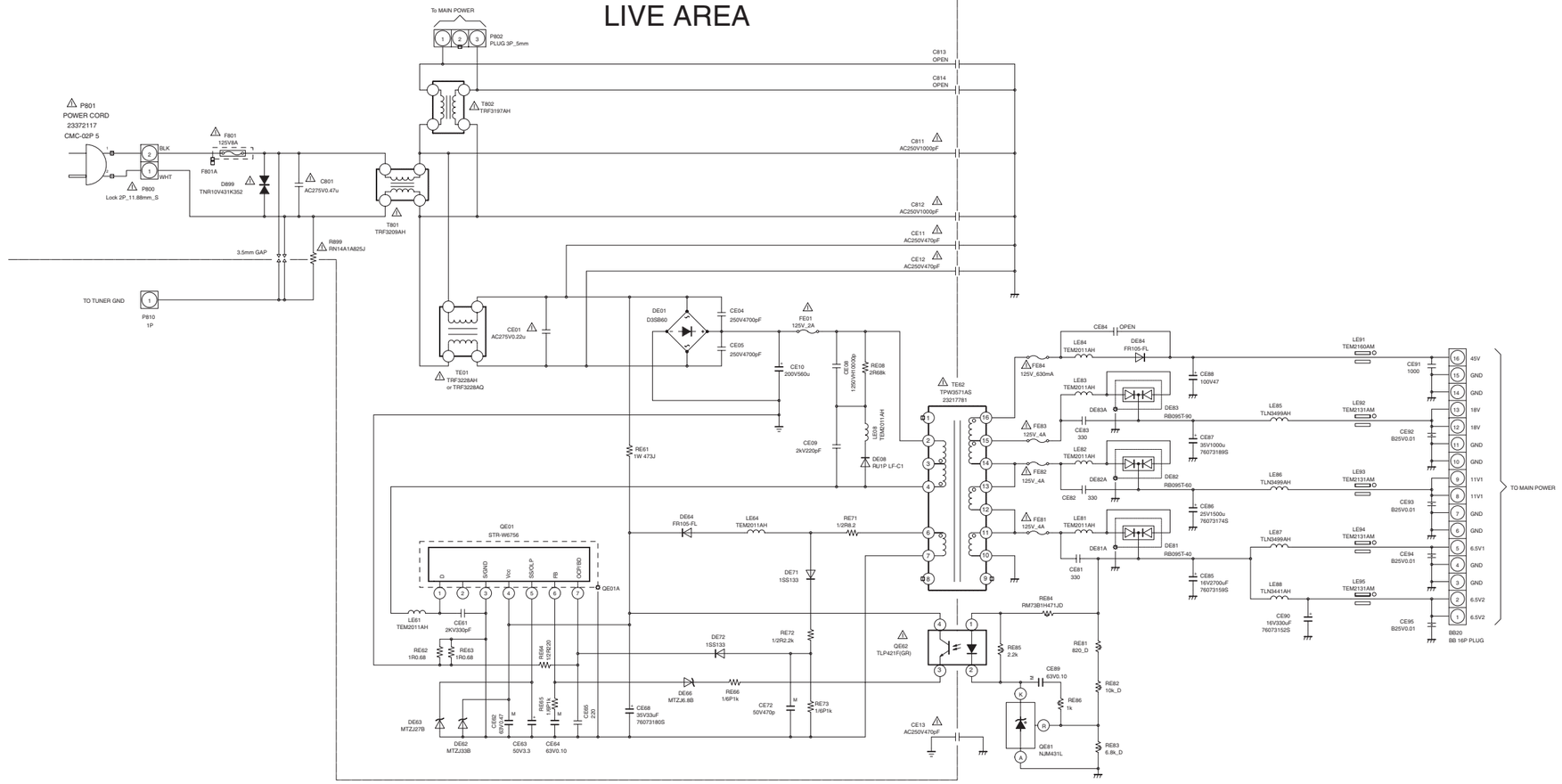
C045 25V0.1

C046 25V0.1

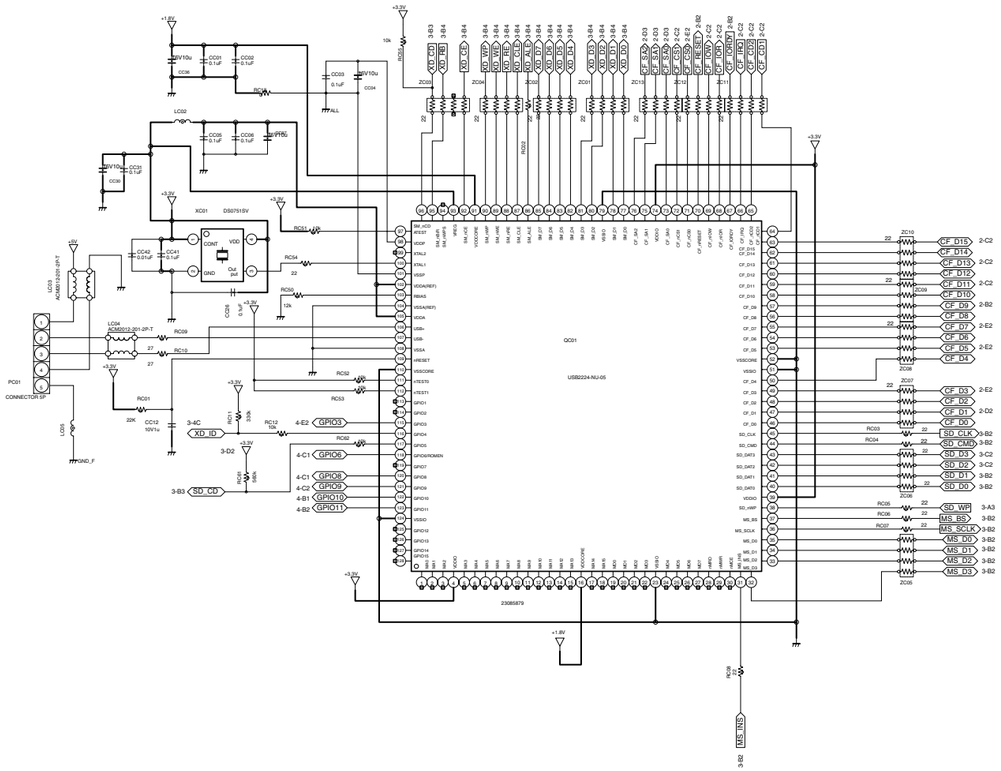
C047 25V0.1

62HM95
MOTHER (REG)
SHEET-2/2

LIVE AREA

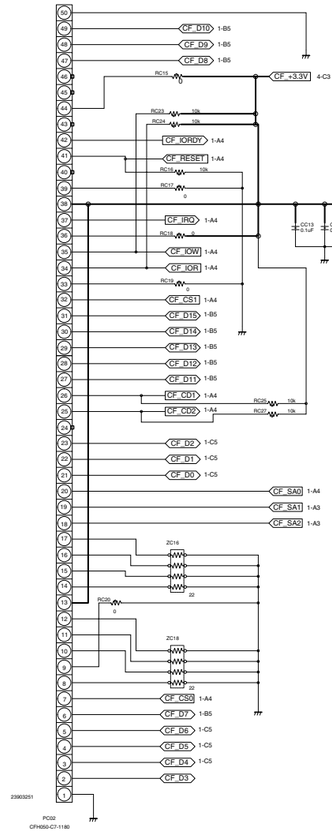


62HM95
SUB POWER

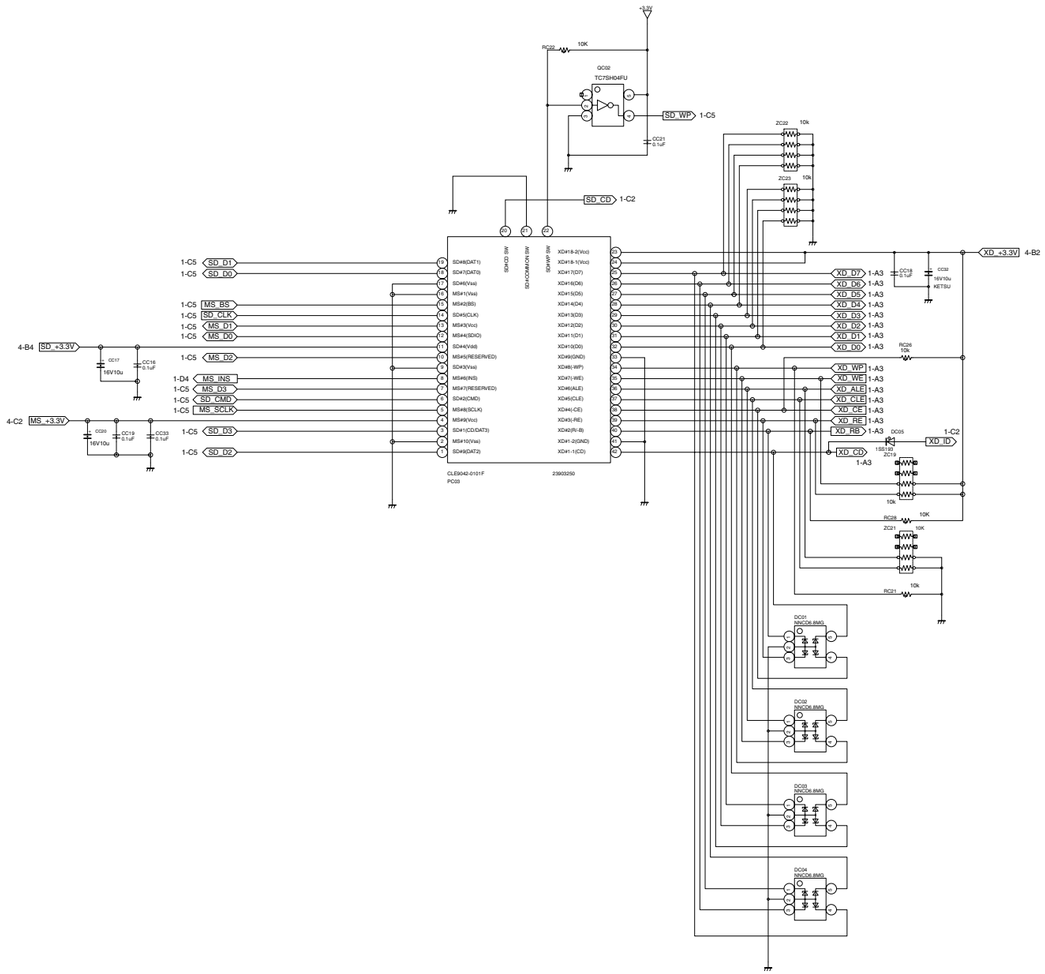


62HM95
MULTI_CARD (1/4)
SHEET-1/4

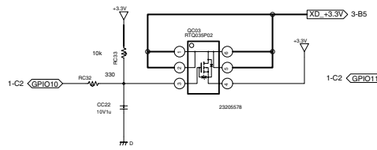
CFH050-C7-1180

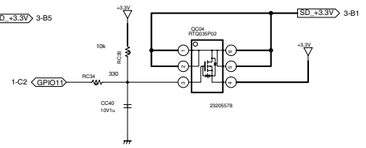


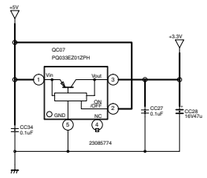
62HM95
MULTI_CARD (2/4)
SHEET-2/4

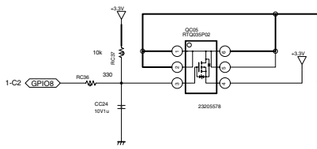


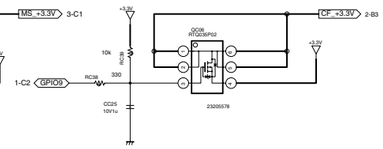
62HM95
MULTI_CARD (3/4)
SHEET-3/4

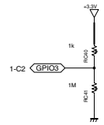


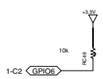




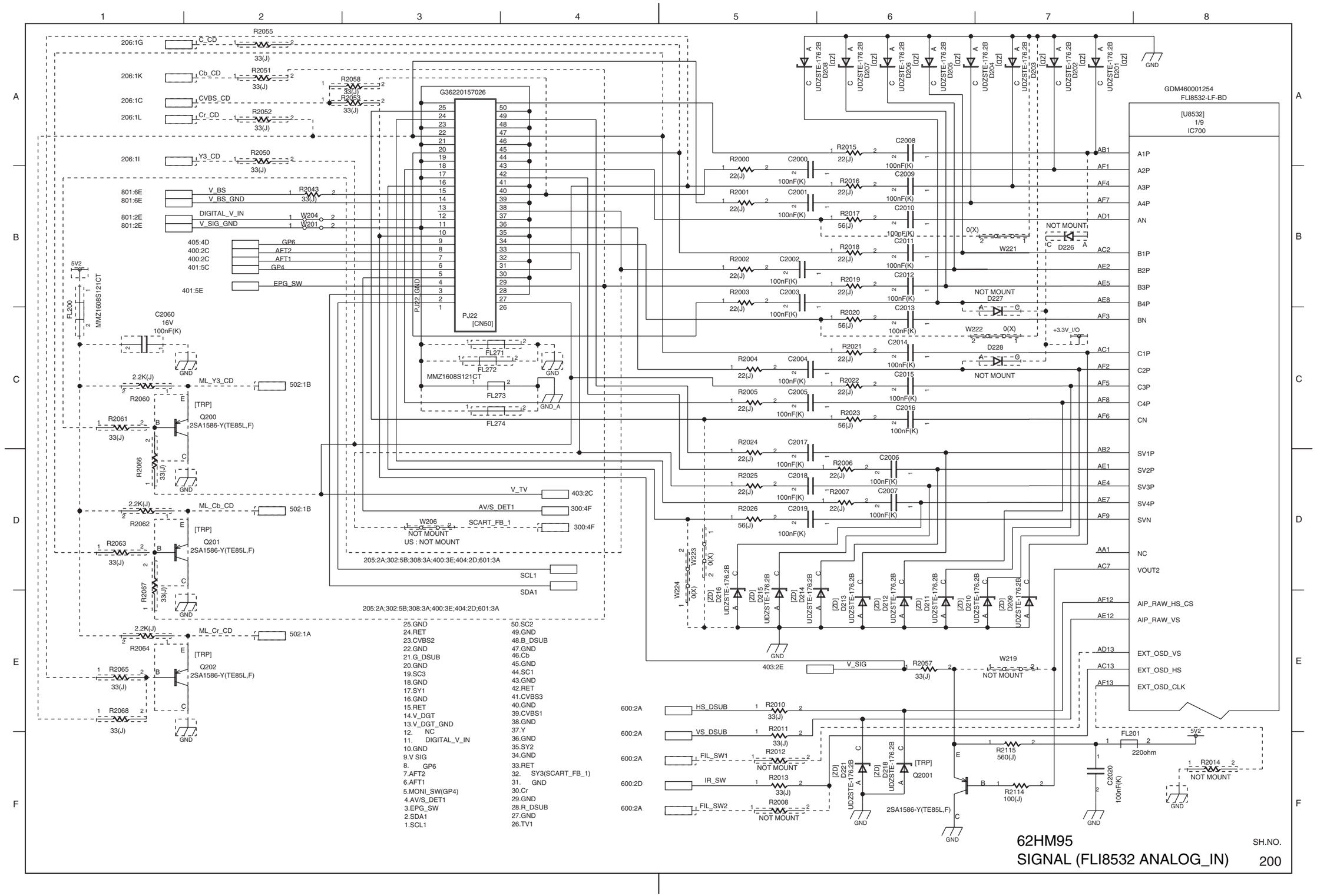


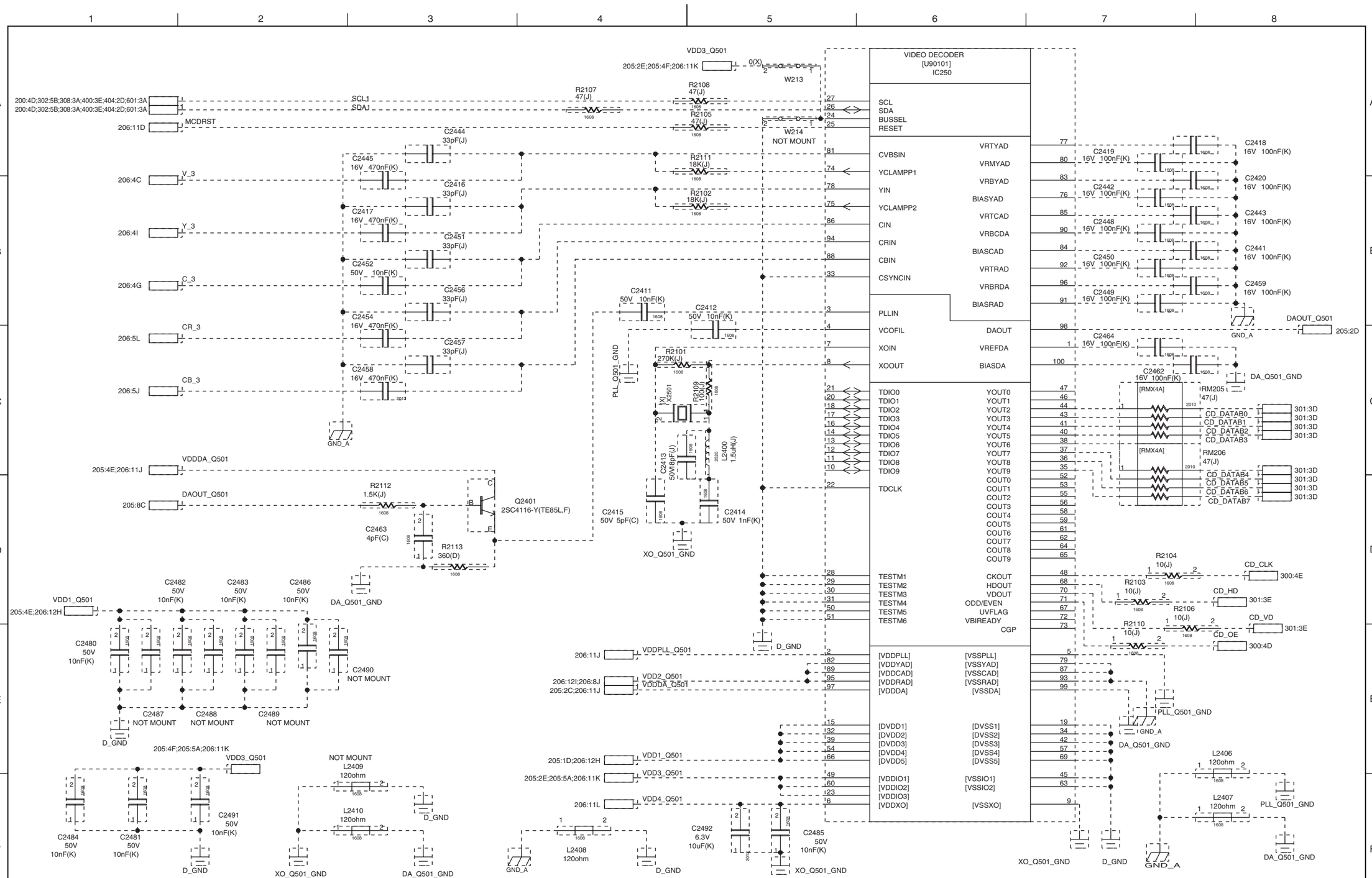


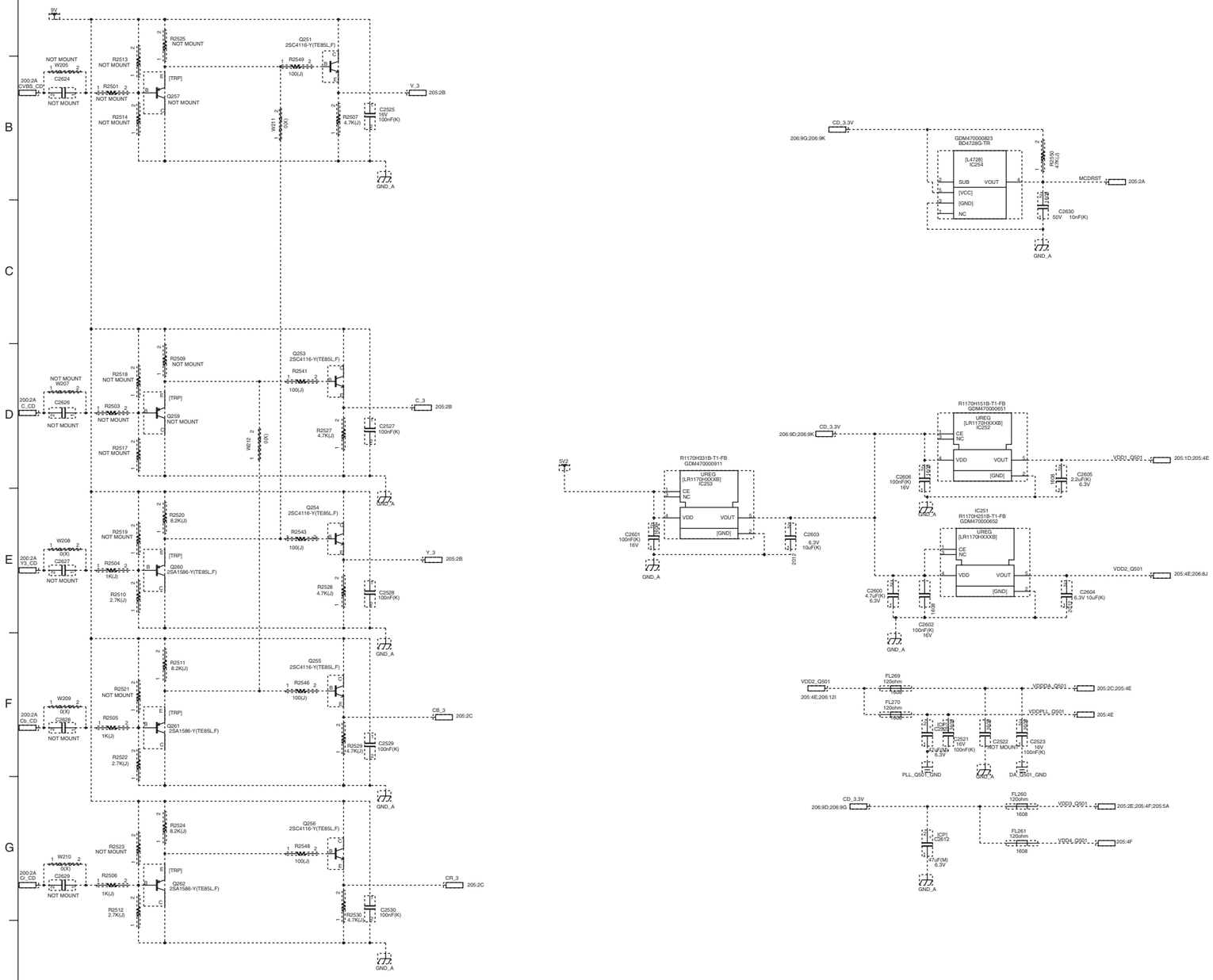




62HM95
MULTI_CARD (4/4)
SHEET-4/4

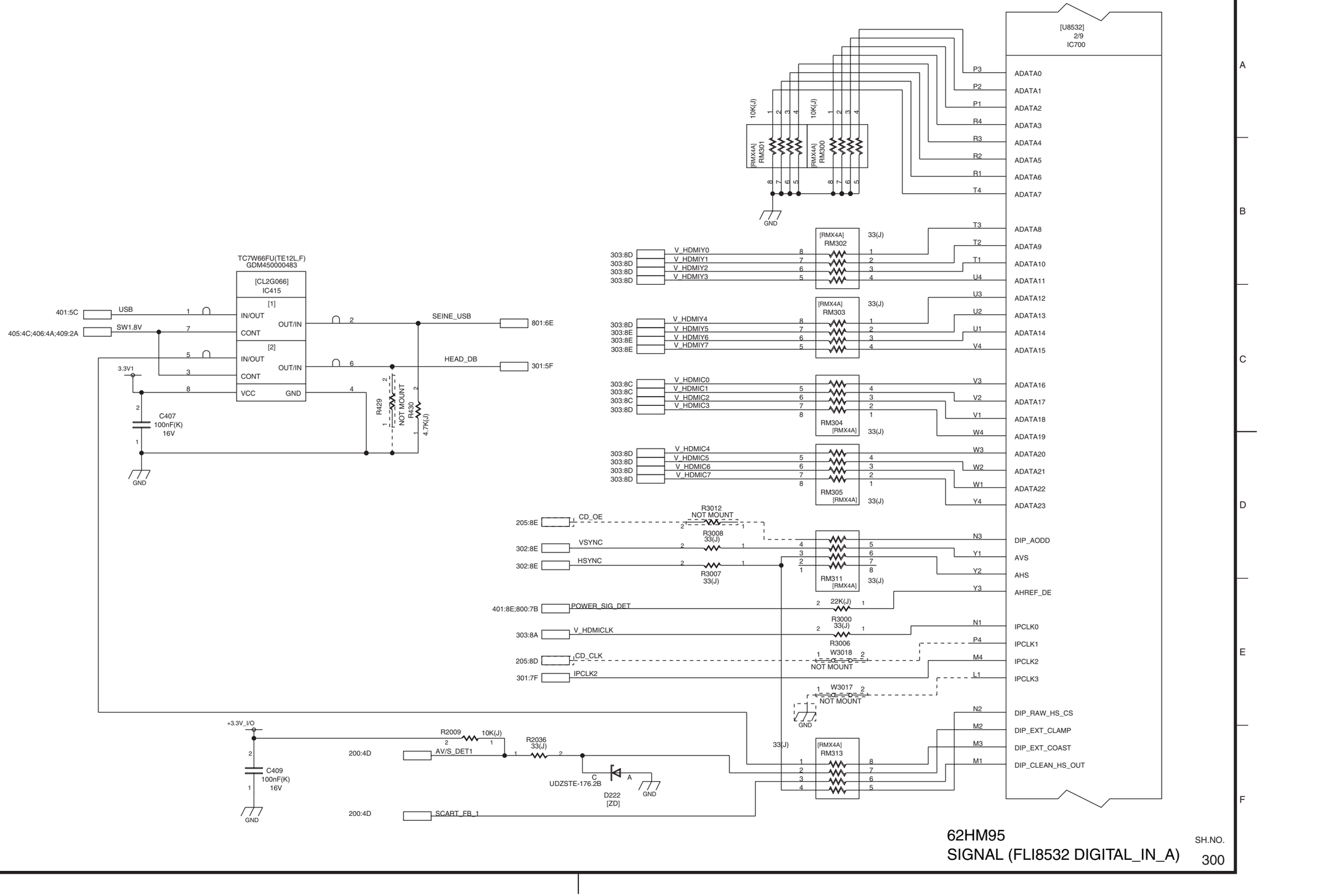

GDM460001254
FLI8532-LF-BD
[U8532]
1/9
IC700
A1P
A2P
A3P
A4P
AN
B1P
B2P
B3P
B4P
BN
C1P
C2P
C3P
C4P
CN
SV1P
SV2P
SV3P
SV4P
SVN
NC
VOUT2
AIP_RAW_HS_CS
AIP_RAW_VS
EXT_OSD_VS
EXT_OSD_HS
EXT_OSD_CLK
G36220157026
PJ22
[CN50]
PJ22 GND
25.GND
24.RET
23.CVBS2
22.GND
21.G_DSUB
20.GND
19.SC3
18.GND
17.SY1
16.GND
15.RET
14.V_DGT
13.V_DGT_GND
12. NC
11. DIGITAL_V_IN
10.GND
9.V SIG
8. GP6
7.AFT2
6.AFT1
5.MONI_SW(GP4)
4.AV/S_DET1
3.EPG_SW
2.SDA1
1.SCL1
50.SC2
49.GND
48.B_DSUB
47.GND
46.Cb
45.GND
44.SC1
43.GND
42.RET
41.CVBS3
40.GND
39.CVBS1
38.GND
37.Y
36.GND
35.SY2
34.GND
33.RET
32. SY3(SCART_FB_1)
31. GND
30.Cr
29.GND
28.R_DSUB
27.GND
26.TV1
206:1G
C_CD
206:1K
Cb_CD
206:1C
CVBS_CD
206:1L
Cr_CD
206:1I
Y3_CD
801:6E
V_BS
801:6E
V_BS_GND
801:2E
DIGITAL_V_IN
801:2E
V_SIG_GND
405:4D
GP6
400:2C
AFT2
400:2C
AFT1
401:5C
GP4
401:5E
EPG_SW
R2055
R2051
R2058
R2053
R2052
R2050
R2043
W204
W201
5V2
FL200
MMZ1608S121CT
C2060
16V
100nF(K)
2.2K(J)
R2060
ML_Y3_CD
502:1B
[TRP]
Q200
2SA1586-Y(TE85L,F)
R2061
R2066
ML_Cb_CD
502:1B
R2062
Q201
R2063
R2067
ML_Cr_CD
502:1A
R2064
Q202
R2065
R2068
33(J)
GND
FL271
FL272
FL273
FL274
GND_A
V_TV
403:2C
AV/S_DET1
300:4F
W206
NOT MOUNT
US : NOT MOUNT
SCART_FB_1
300:4F
205:2A;302:5B;308:3A;400:3E;404:2D;601:3A
SCL1
SDA1
205:2A;302:5B;308:3A;400:3E;404:2D;601:3A
R2000
R2001
R2002
R2003
R2004
R2005
R2024
R2025
R2026
C2000
C2001
C2002
C2003
C2004
C2005
C2017
C2018
C2019
22(J)
56(J)
100nF(K)
R2015
R2016
R2017
R2018
R2019
R2020
R2021
R2022
R2023
C2008
C2009
C2010
C2011
C2012
C2013
C2014
C2015
C2016
R2006
R2007
C2006
C2007
0(X)
W221
W222
W223
W224
NOT MOUNT
D226
D227
D228
+3.3V_I/O
UDZSTE-176.2B
D208
D207
D206
D205
D204
D203
D202
D201
D216
D215
D214
D213
D212
D211
D210
D209
[ZD]
[OZ]
GND
403:2E
V_SIG
R2057
33(J)
W219
NOT MOUNT
600:2A
HS_DSUB
R2010
600:2A
VS_DSUB
R2011
600:2A
FIL_SW1
R2012
600:2D
IR_SW
R2013
600:2A
FIL_SW2
R2008
D221
D218
[TRP]
Q2001
2SA1586-Y(TE85L,F)
R2115
560(J)
R2114
100(J)
FL201
220ohm
C2020
100nF(K)
R2014
AB1
AF1
AF4
AF7
AD1
AC2
AE2
AE5
AE8
AF3
AC1
AF2
AF5
AF8
AF6
AB2
AE1
AE4
AE7
AF9
AA1
AC7
AF12
AE12
AD13
AC13
AF13
62HM95
SIGNAL (FLI8532 ANALOG_IN)
SH.NO.
200


VIDEO DECODER
[U90101]
IC250
SCL
SDA
BUSSEL
RESET
CVBSIN
YCLAMPP1
YIN
YCLAMPP2
CIN
CRIN
CBIN
CSYNCIN
PLLIN
VCOFIL
XOIN
XOOUT
TDIO0
TDIO1
TDIO2
TDIO3
TDIO4
TDIO5
TDIO6
TDIO7
TDIO8
TDIO9
TDCLK
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDRAD]
[VDDDA]
[VDD1]
[VDD2]
[VDD3]
[VDD4]
[VDD5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCDA
BIASCAD
VRTRAD
VRBRDA
BIASRAD
DAOUT
VREFDA
BIASDA
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
CKOUT
HDOUT
VDOUT
ODD/EVEN
UVFLAG
VBIREADY
CGP
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSRAD]
[VSSDA]
[VSS1]
[VSS2]
[VSS3]
[VSS4]
[VSS5]
[VSSIO1]
[VSSIO2]
[VSSXO]
VDD3_Q501
205:2E;205:4F;206:11K
0(X)
W213
R2107 47(J)
R2108 47(J)
R2105 47(J)
W214
NOT MOUNT
SCL1
SDA1
200:4D;302:5B;308:3A;400:3E;404:2D;601:3A
MCDRST
206:11D
C2444 33pF(J)
C2445 16V 470nF(K)
C2416 33pF(J)
C2417 16V 470nF(K)
C2451 33pF(J)
C2452 50V 10nF(K)
C2456 33pF(J)
C2454 16V 470nF(K)
C2457 33pF(J)
C2458 16V 470nF(K)
V_3
206:4C
Y_3
206:4I
C_3
206:4G
CR_3
206:5L
CB_3
206:5J
GND_A
R2111 18K(J)
R2102 18K(J)
C2411 50V 10nF(K)
C2412 50V 10nF(K)
R2101 270K(J)
PLL_Q501_GND
X2501
R2109 100(J)
C2413 50V18pF(J)
L2400 1.5uH(J)
C2415 50V 5pF(C)
C2414 50V 1nF(K)
XO_Q501_GND
VDDDA_Q501
205:4E;206:11J
DAOUT_Q501
205:8C
R2112 1.5K(J)
Q2401 2SC4116-Y(TE85L,F)
C2463 4pF(C)
R2113 360(D)
DA_Q501_GND
VDD1_Q501
205:4E;206:12H
C2482 50V 10nF(K)
C2483 50V 10nF(K)
C2486 50V 10nF(K)
C2480 50V 10nF(K)
C2490 NOT MOUNT
C2487 NOT MOUNT
C2488 NOT MOUNT
C2489 NOT MOUNT
D_GND
205:4F;205:5A;206:11K
C2491 50V 10nF(K)
C2484 50V 10nF(K)
C2481 50V 10nF(K)
NOT MOUNT
L2409 120ohm
L2410 120ohm
XO_Q501_GND
DA_Q501_GND
206:11J
206:12I;206:8J
205:2C;206:11J
205:1D;206:12H
205:2E;205:5A;206:11K
206:11L
L2408 120ohm
C2492 6.3V 10uF(K)
C2485 50V 10nF(K)
C2419 16V 100nF(K)
C2442 16V 100nF(K)
C2448 16V 100nF(K)
C2450 16V 100nF(K)
C2449 16V 100nF(K)
C2464 16V 100nF(K)
C2462 16V 100nF(K)
C2418 16V 100nF(K)
C2420 16V 100nF(K)
C2443 16V 100nF(K)
C2441 16V 100nF(K)
C2459 16V 100nF(K)
DAOUT_Q501
205:2D
DA_Q501_GND
[RMX4A]
RM205 47(J)
RM206 47(J)
CD_DATAB0
CD_DATAB1
CD_DATAB2
CD_DATAB3
CD_DATAB4
CD_DATAB5
CD_DATAB6
CD_DATAB7
301:3D
R2104 10(J)
R2103 10(J)
R2106 10(J)
R2110 10(J)
CD_CLK
CD_HD
CD_VD
CD_OE
300:4E
301:3E
300:4D
L2406 120ohm
L2407 120ohm
PLL_Q501_GND
62HM95
SIGNAL (TC90101FG)
SH.NO.
205



62HM95
SIGNAL (COLOR- DEC- REG)

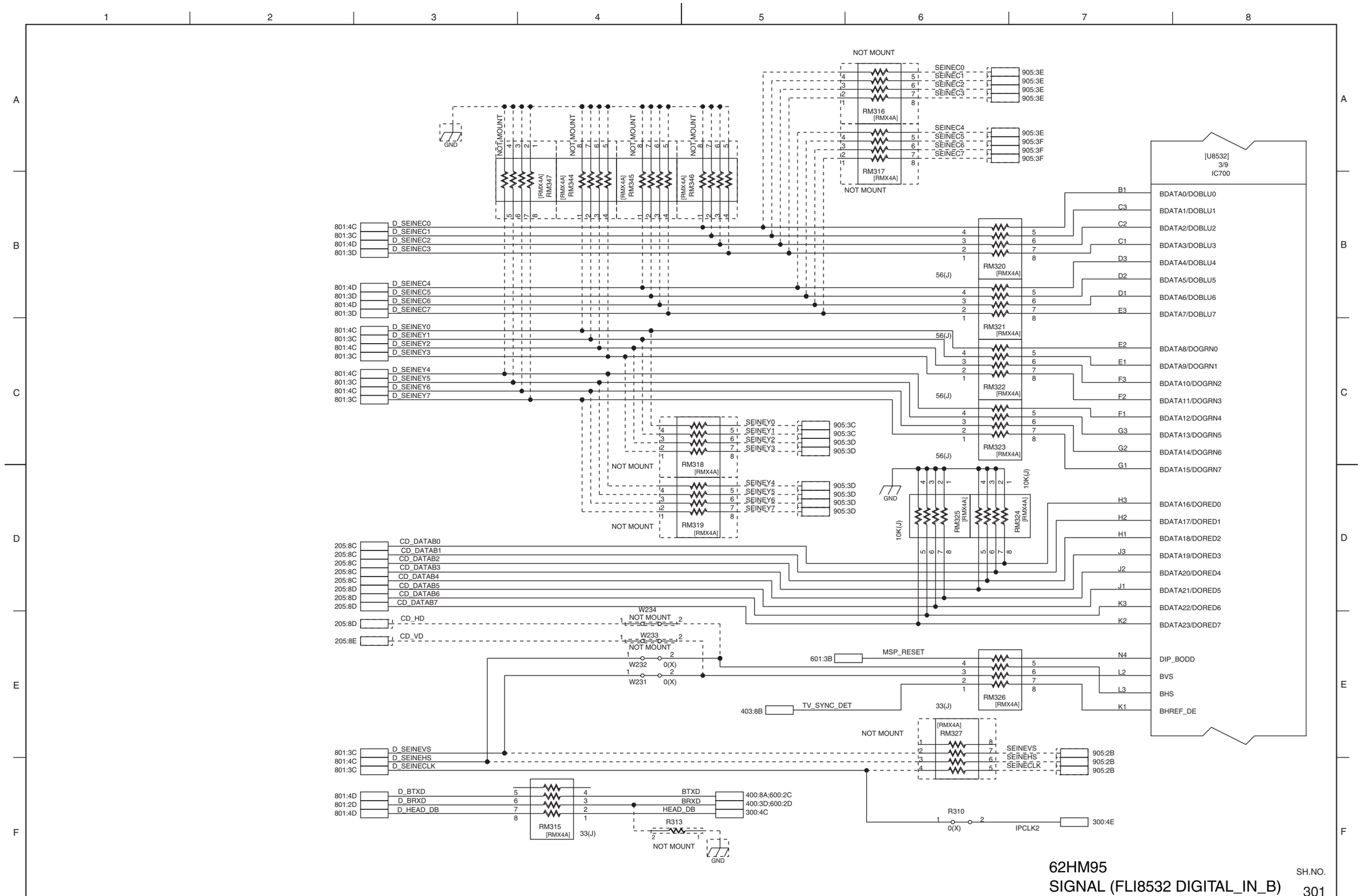
SH.NO.
206

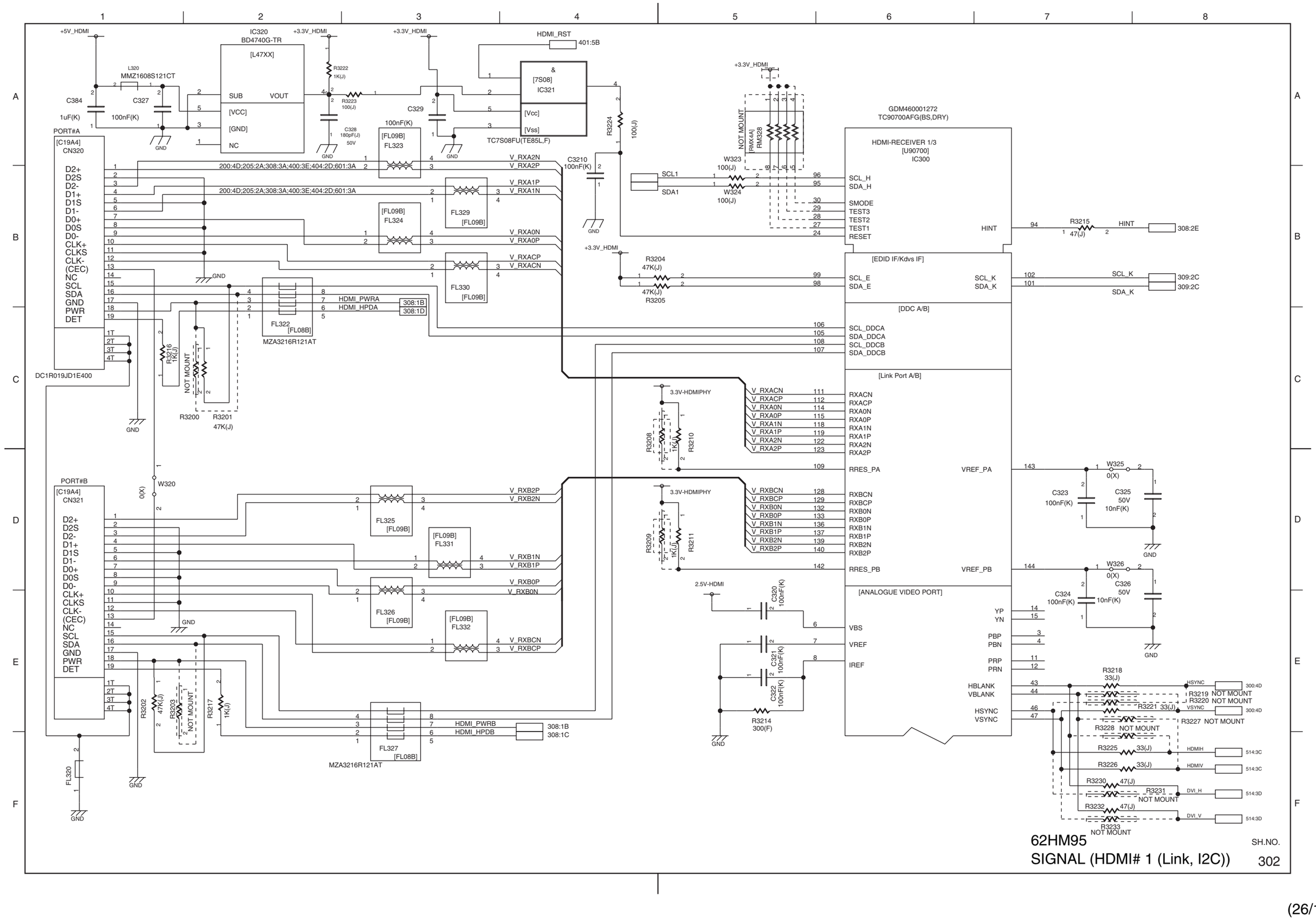


62HM95

SIGNAL (FLI8532 DIGITAL_IN_A)

SH.NO. 300

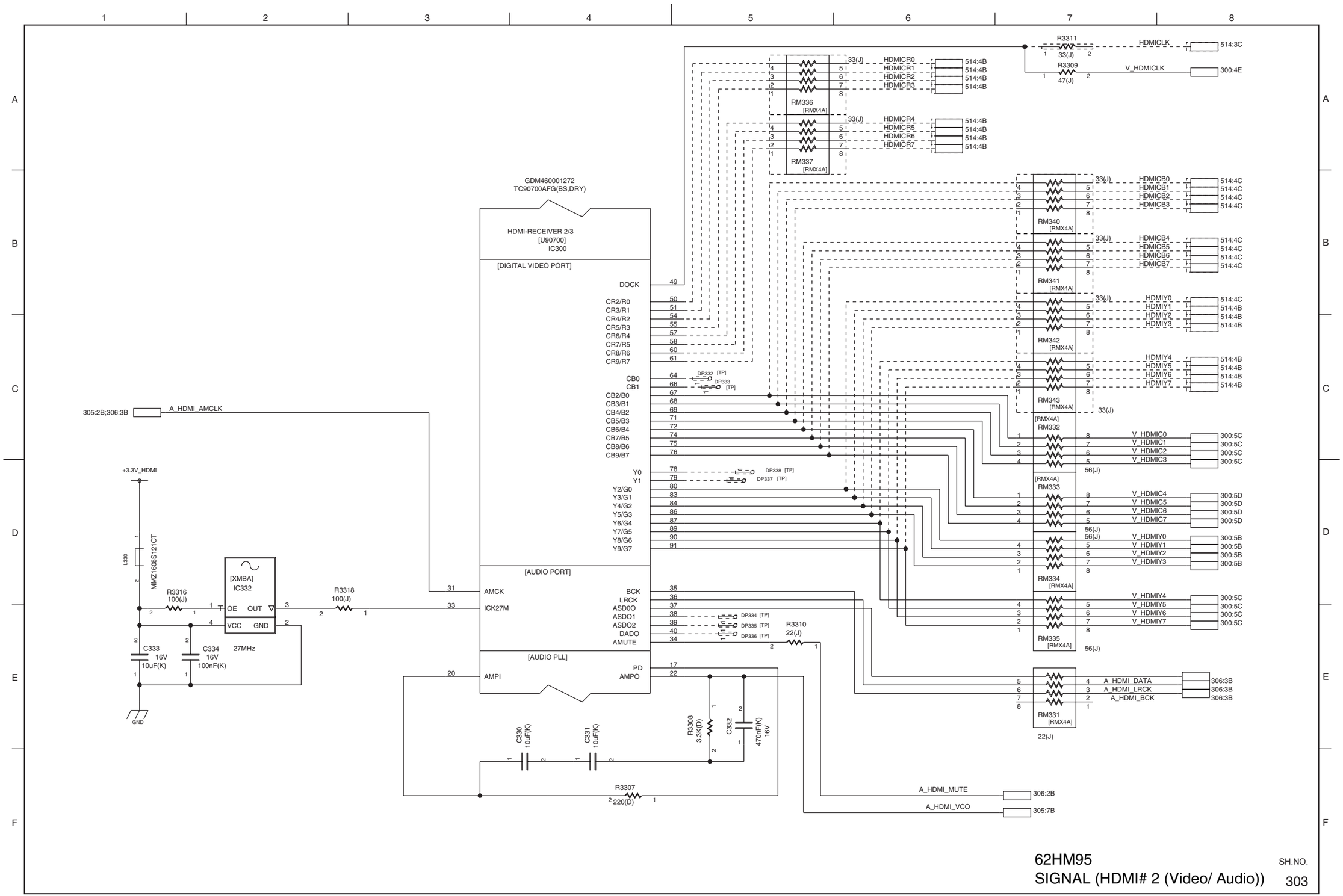

NOT MOUNT
RM316 [RMX4A]
SEINEC0
SEINEC1
SEINEC2
SEINEC3
905:3E
905:3E
905:3E
905:3E
RM317 [RMX4A]
SEINEC4
SEINEC5
SEINEC6
SEINEC7
905:3E
905:3F
905:3F
905:3F
GND
RM347
RM344
RM345
RM346
801:4C D_SEINEC0
801:3C D_SEINEC1
801:4D D_SEINEC2
801:3D D_SEINEC3
801:4D D_SEINEC4
801:3D D_SEINEC5
801:4D D_SEINEC6
801:3D D_SEINEC7
801:4C D_SEINEY0
801:3C D_SEINEY1
801:4C D_SEINEY2
801:3C D_SEINEY3
801:4C D_SEINEY4
801:3C D_SEINEY5
801:4C D_SEINEY6
801:3C D_SEINEY7
RM320 [RMX4A]
RM321 [RMX4A]
RM322 [RMX4A]
RM323 [RMX4A]
56(J)
RM318 [RMX4A]
RM319 [RMX4A]
SEINEY0
SEINEY1
SEINEY2
SEINEY3
SEINEY4
SEINEY5
SEINEY6
SEINEY7
905:3C
905:3C
905:3D
905:3D
905:3D
905:3D
905:3D
905:3D
RM324 [RMX4A]
RM325 [RMX4A]
10K(J)
[U8532]
3/9
IC700
B1 BDATA0/DOBLU0
C3 BDATA1/DOBLU1
C2 BDATA2/DOBLU2
C1 BDATA3/DOBLU3
D3 BDATA4/DOBLU4
D2 BDATA5/DOBLU5
D1 BDATA6/DOBLU6
E3 BDATA7/DOBLU7
E2 BDATA8/DOGRN0
E1 BDATA9/DOGRN1
F3 BDATA10/DOGRN2
F2 BDATA11/DOGRN3
F1 BDATA12/DOGRN4
G3 BDATA13/DOGRN5
G2 BDATA14/DOGRN6
G1 BDATA15/DOGRN7
H3 BDATA16/DORED0
H2 BDATA17/DORED1
H1 BDATA18/DORED2
J3 BDATA19/DORED3
J2 BDATA20/DORED4
J1 BDATA21/DORED5
K3 BDATA22/DORED6
K2 BDATA23/DORED7
N4 DIP_BODD
L2 BVS
L3 BHS
K1 BHREF_DE
205:8C CD_DATAB0
205:8C CD_DATAB1
205:8C CD_DATAB2
205:8C CD_DATAB3
205:8C CD_DATAB4
205:8C CD_DATAB5
205:8D CD_DATAB6
205:8D CD_DATAB7
205:8D CD_HD
205:8E CD_VD
W234 NOT MOUNT
W233 NOT MOUNT
W232 0(X)
W231 0(X)
601:3B MSP_RESET
403:8B TV_SYNC_DET
33(J)
801:3C D_SEINEVS
801:4C D_SEINEHS
801:3C D_SEINECLK
RM327 [RMX4A]
SEINEVS
SEINEHS
SEINECLK
905:2B
905:2B
905:2B
801:4D D_BTXD
801:2D D_BRXD
801:4D D_HEAD_DB
RM315 [RMX4A]
33(J)
BTXD
BRXD
HEAD_DB
400:8A;600:2C
400:3D;600:2D
300:4C
R313 NOT MOUNT
R310
0(X)
IPCLK2
300:4E
62HM95
SIGNAL (FLI8532 DIGITAL_IN_B)
SH.NO.
301

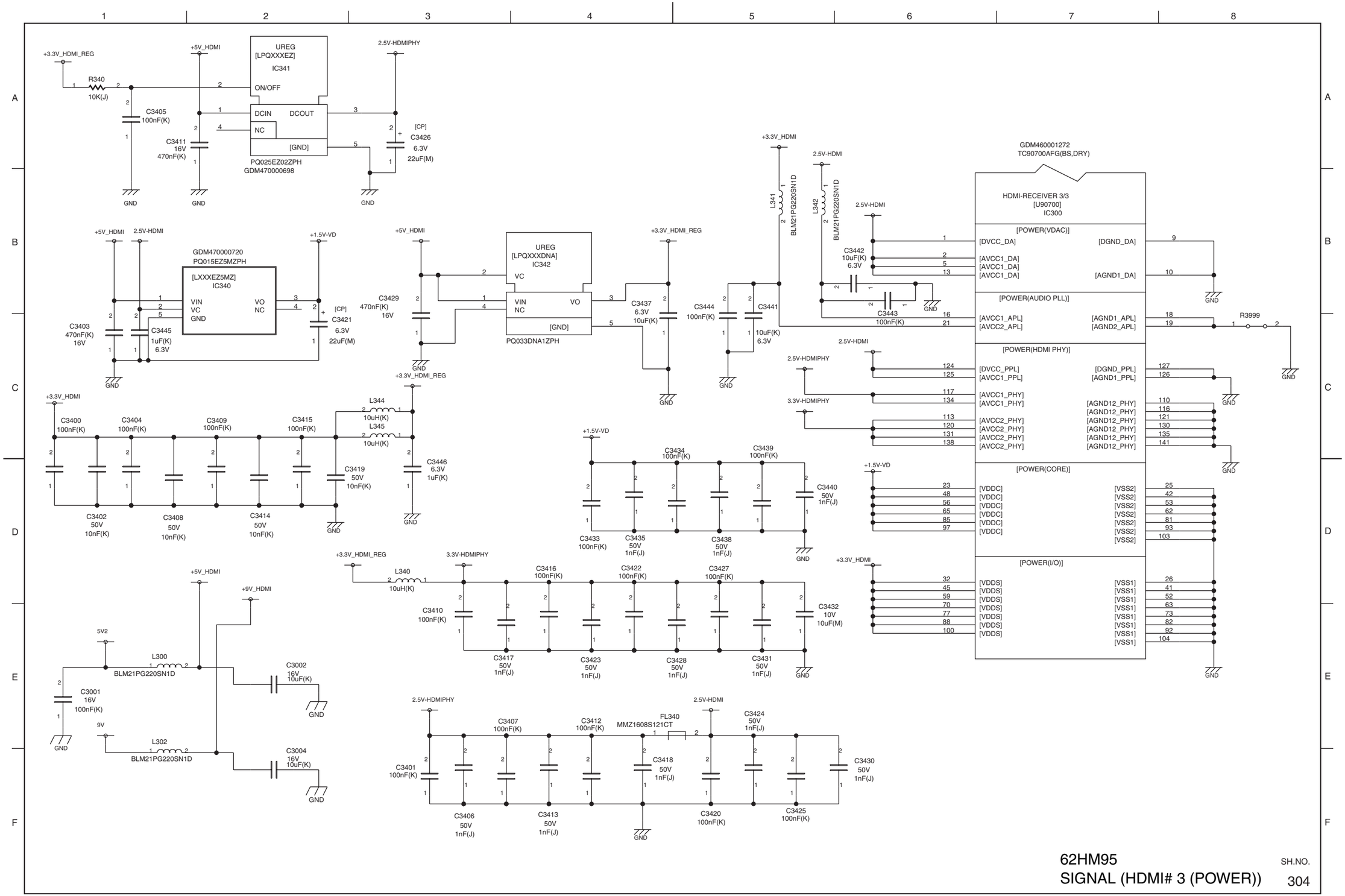


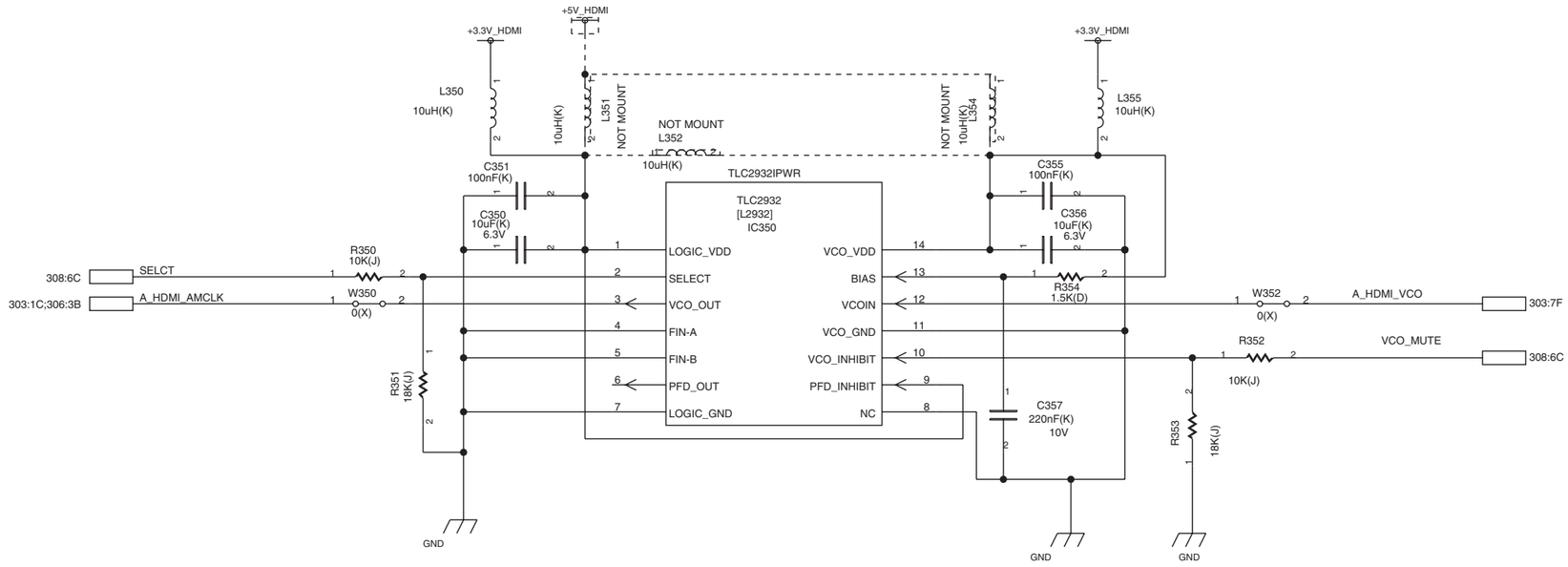
62HM95

SIGNAL (HDMI# 1 (Link, I2C))

SH.NO. 302

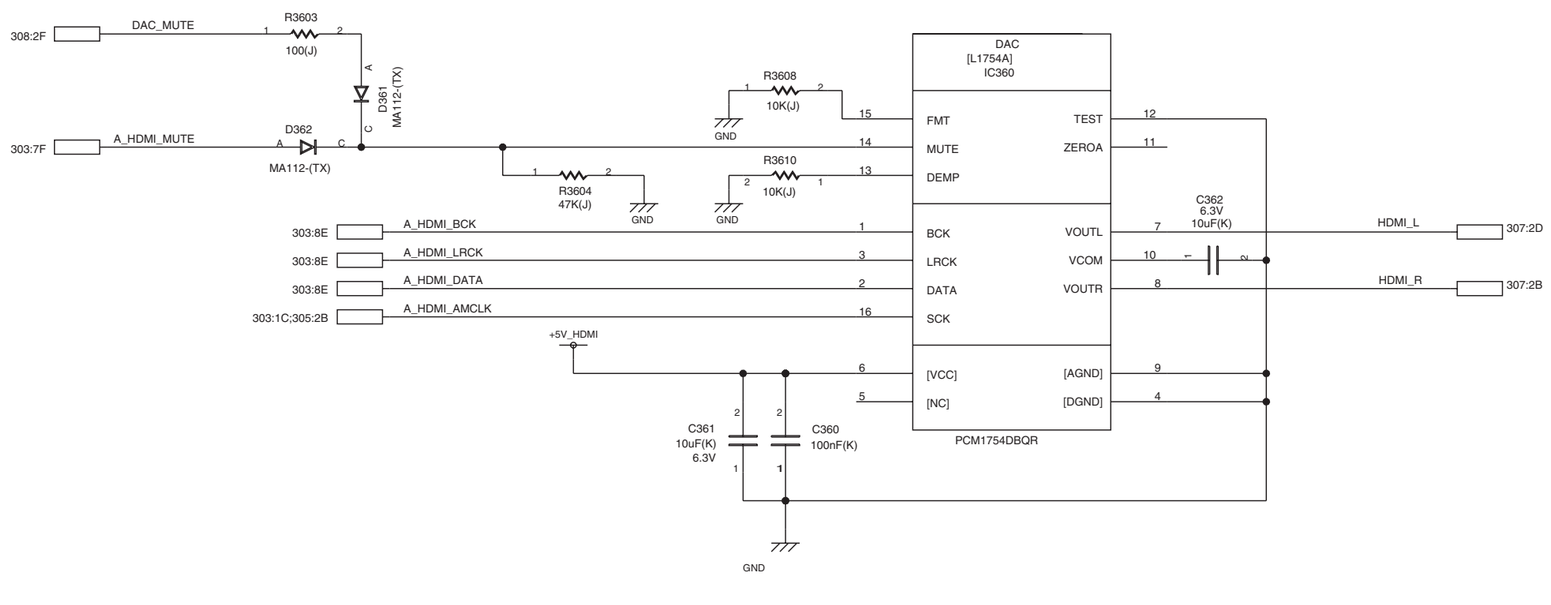

GDM460001272
TC90700AFG(BS,DRY)
HDMI-RECEIVER 2/3
[U90700]
IC300
[DIGITAL VIDEO PORT]
DOCK
CR2/R0
CR3/R1
CR4/R2
CR5/R3
CR6/R4
CR7/R5
CR8/R6
CR9/R7
CB0
CB1
CB2/B0
CB3/B1
CB4/B2
CB5/B3
CB6/B4
CB7/B5
CB8/B6
CB9/B7
Y0
Y1
Y2/G0
Y3/G1
Y4/G2
Y5/G3
Y6/G4
Y7/G5
Y8/G6
Y9/G7
[AUDIO PORT]
AMCK
ICK27M
BCK
LRCK
ASD0O
ASD1
ASD2
DADO
AMUTE
[AUDIO PLL]
AMPI
PD
AMPO
R3311
33(J)
HDMICLK
514:3C
R3309
47(J)
V_HDMICLK
300:4E
RM336
RM337
RM340
RM341
RM342
RM343
RM332
RM333
RM334
RM335
RM331
[RMX4A]
HDMICR0
HDMICR1
HDMICR2
HDMICR3
HDMICR4
HDMICR5
HDMICR6
HDMICR7
HDMICB0
HDMICB1
HDMICB2
HDMICB3
HDMICB4
HDMICB5
HDMICB6
HDMICB7
HDMIY0
HDMIY1
HDMIY2
HDMIY3
HDMIY4
HDMIY5
HDMIY6
HDMIY7
514:4B
514:4C
V_HDMIC0
V_HDMIC1
V_HDMIC2
V_HDMIC3
V_HDMIC4
V_HDMIC5
V_HDMIC6
V_HDMIC7
300:5C
300:5D
56(J)
V_HDMIY0
V_HDMIY1
V_HDMIY2
V_HDMIY3
V_HDMIY4
V_HDMIY5
V_HDMIY6
V_HDMIY7
300:5B
A_HDMI_DATA
A_HDMI_LRCK
A_HDMI_BCK
306:3B
22(J)
DP332 [TP]
DP333 [TP]
DP338 [TP]
DP337 [TP]
DP334 [TP]
DP335 [TP]
DP336 [TP]
R3310
22(J)
A_HDMI_MUTE
306:2B
A_HDMI_VCO
305:7B
305:2B;306:3B
A_HDMI_AMCLK
+3.3V_HDMI
L330
MMZ1608S121CT
[XMBA]
IC332
OE
OUT
VCC
GND
R3316
100(J)
R3318
100(J)
C333
16V
10uF(K)
C334
16V
100nF(K)
27MHz
C330
10uF(K)
C331
10uF(K)
R3308
3.3K(D)
C332
470nF(K)
16V
R3307
220(D)
GND
62HM95
SIGNAL (HDMI# 2 (Video/ Audio))
SH.NO.
303


UREG
[LPQXXXEZ]
IC341
ON/OFF
DCIN
DCOUT
NC
[GND]
PQ025EZ02ZPH
GDM470000698
R340
10K(J)
C3405
100nF(K)
C3411
16V
470nF(K)
C3426
6.3V
22uF(M)
[CP]
+3.3V_HDMI_REG
+5V_HDMI
2.5V-HDMIPHY
GND
GDM470000720
PQ015EZ5MZPH
[LXXXEZ5MZ]
IC340
VIN
VC
GND
VO
NC
C3403
470nF(K)
16V
C3445
1uF(K)
6.3V
C3421
6.3V
22uF(M)
+1.5V-VD
UREG
[LPQXXXDNA]
IC342
PQ033DNA1ZPH
C3429
470nF(K)
16V
C3437
6.3V
10uF(K)
C3444
100nF(K)
C3441
10uF(K)
6.3V
C3442
10uF(K)
6.3V
C3443
100nF(K)
L341
L342
BLM21PG220SN1D
2.5V-HDMI
3.3V_HDMI
GDM460001272
TC90700AFG(BS,DRY)
HDMI-RECEIVER 3/3
[U90700]
IC300
[POWER(VDAC)]
[DVCC_DA]
[AVCC1_DA]
[AVCC1_DA]
[AVCC1_DA]
[DGND_DA]
[AGND1_DA]
[POWER(AUDIO PLL)]
[AVCC1_APL]
[AVCC2_APL]
[AGND1_APL]
[AGND2_APL]
R3999
[POWER(HDMI PHY)]
[DVCC_PPL]
[AVCC1_PPL]
[AVCC1_PHY]
[AVCC1_PHY]
[AVCC2_PHY]
[AVCC2_PHY]
[AVCC2_PHY]
[AVCC2_PHY]
[DGND_PPL]
[AGND1_PPL]
[AGND12_PHY]
[POWER(CORE)]
[VDDC]
[VSS2]
[POWER(I/O)]
[VDDS]
[VSS1]
3.3V-HDMIPHY
L344
L345
10uH(K)
C3400
C3404
C3409
C3415
100nF(K)
C3402
C3408
C3414
50V
10nF(K)
C3419
C3446
6.3V
1uF(K)
C3434
C3439
C3433
C3435
C3438
C3440
50V
1nF(J)
L340
C3410
C3416
C3422
C3427
C3417
C3423
C3428
C3431
C3432
10V
10uF(M)
5V2
9V
9V_HDMI
L300
L302
BLM21PG220SN1D
C3001
16V
100nF(K)
C3002
16V
10uF(K)
C3004
C3401
C3407
C3412
C3406
C3413
C3418
C3420
C3424
C3425
C3430
FL340
MMZ1608S121CT
62HM95
SIGNAL (HDMI# 3 (POWER))
SH.NO.
304



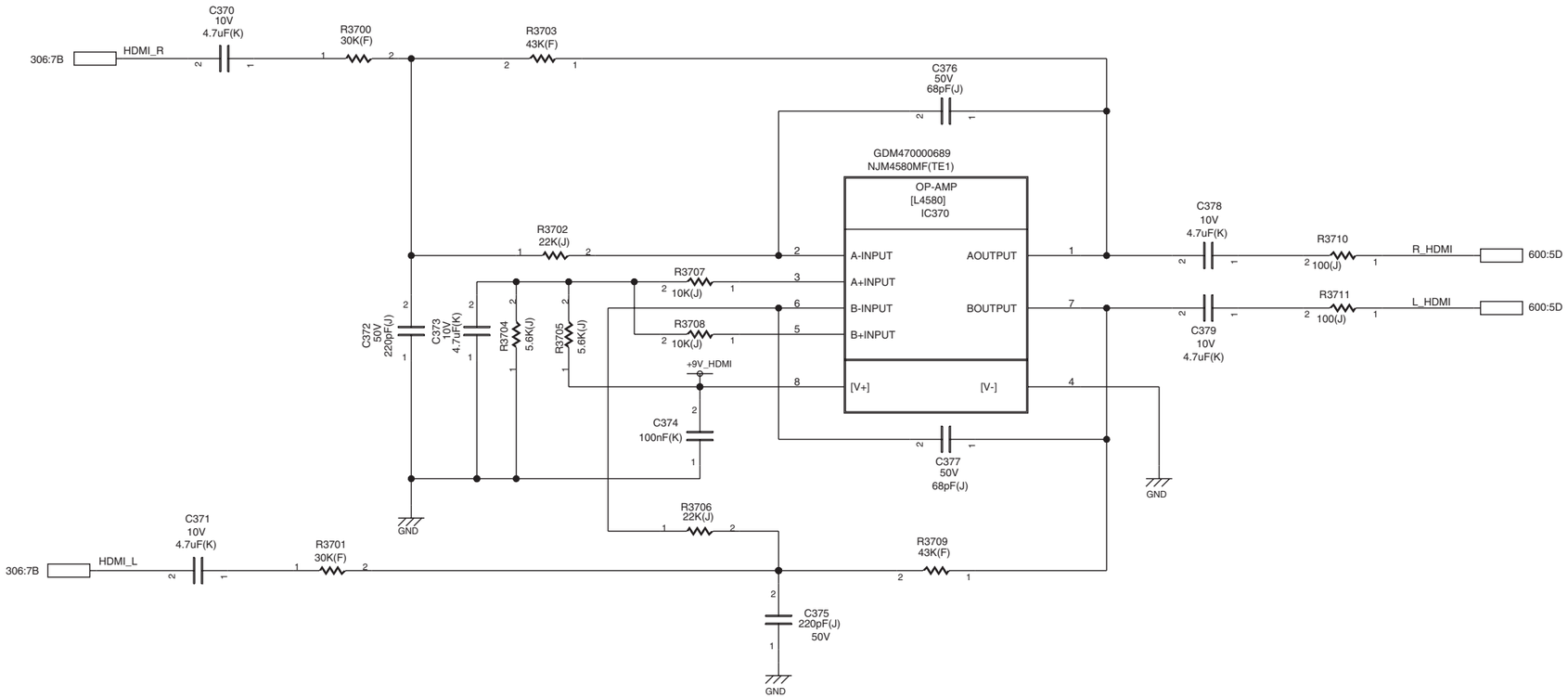
62HM95
SIGNAL (HDMI AUDIO_ PLL)

SH.NO.
305



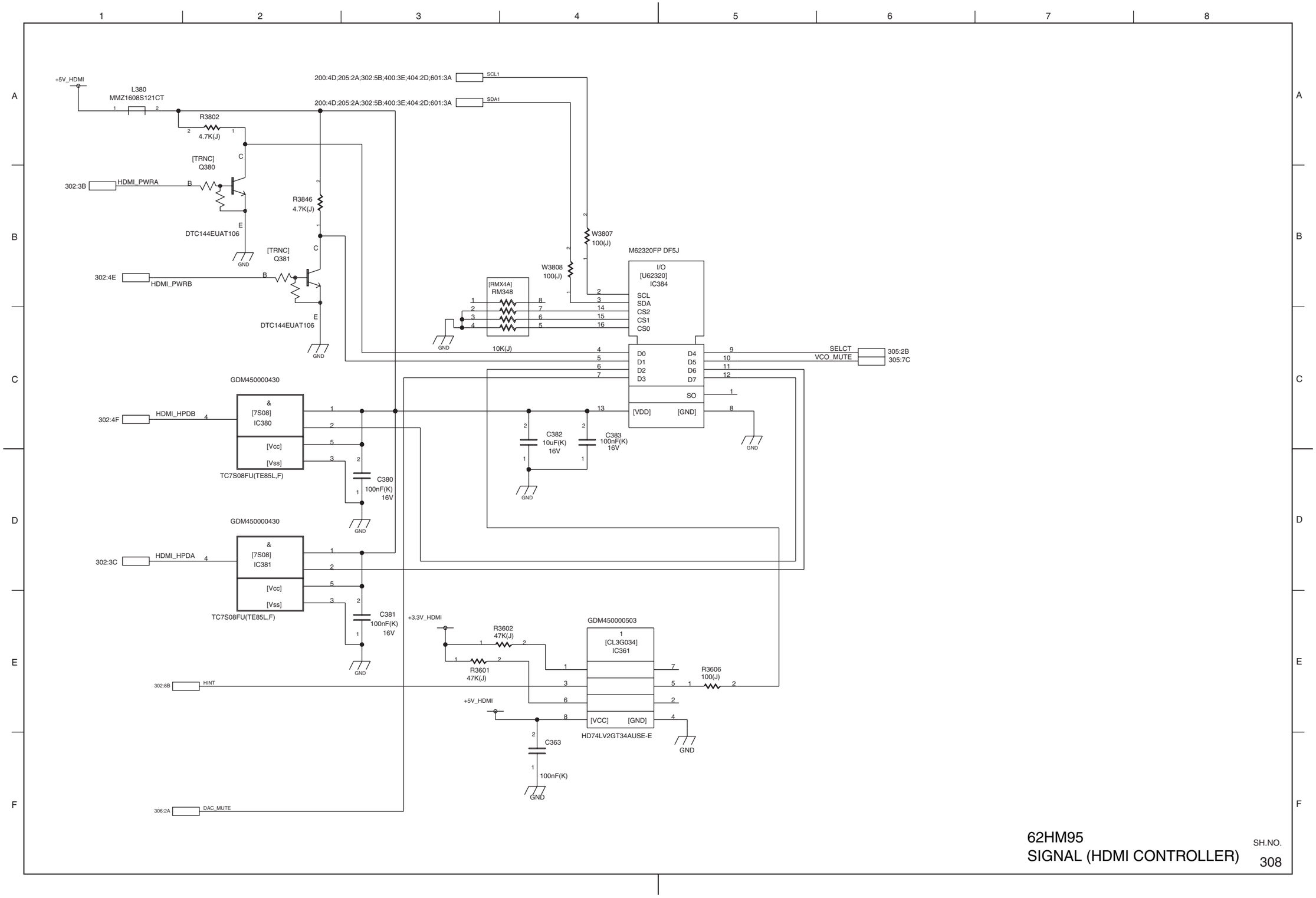
62HM95
SIGNAL (HDMI AUDIO_ DAC)

SH.NO.
306



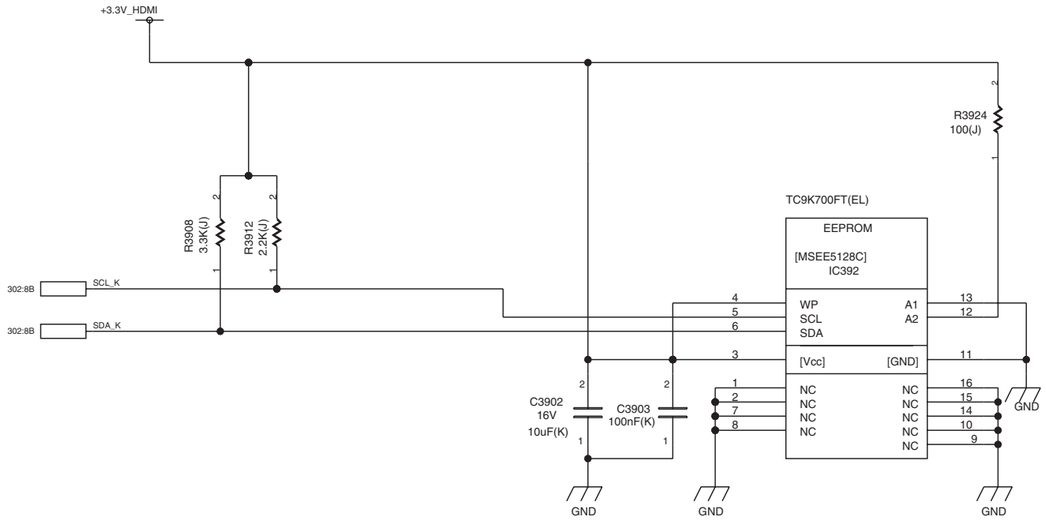
62HM95
SIGNAL (HDMI AUDIO_ OUT)

SH.NO.
307



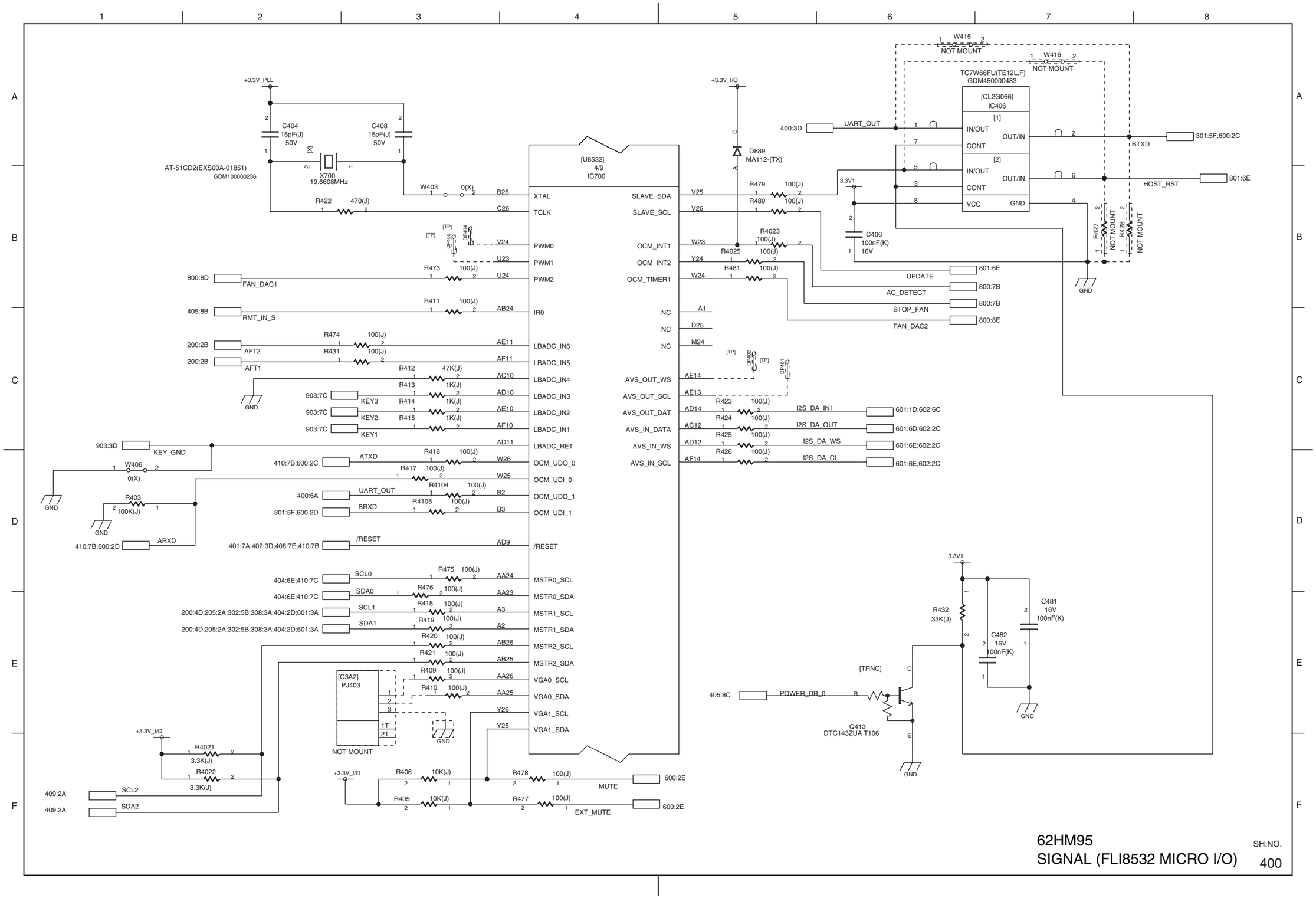
62HM95
SIGNAL (HDMI CONTROLLER)

SH.NO.
308



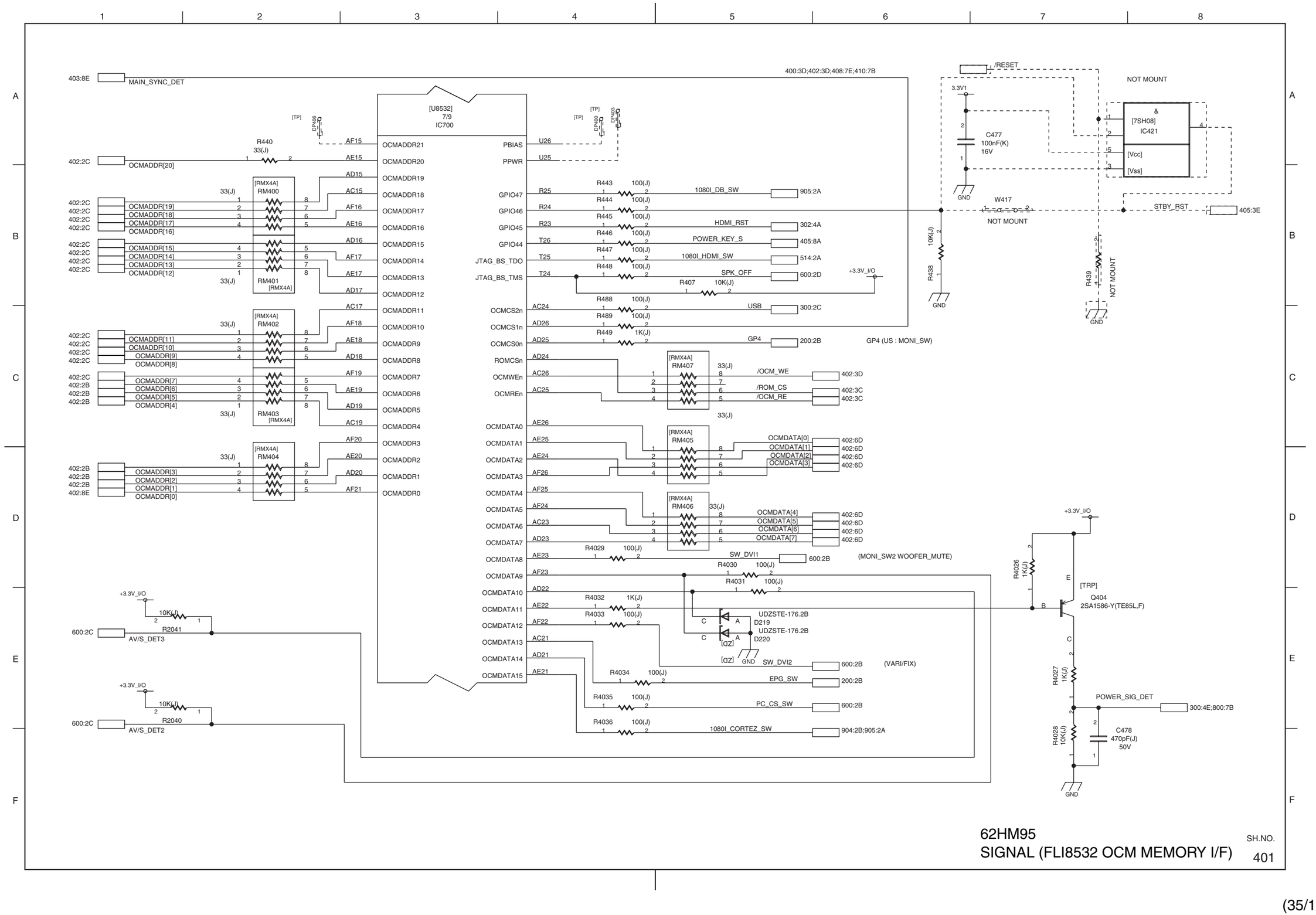
62HM95
SIGNAL (HDMI EEPROM2)

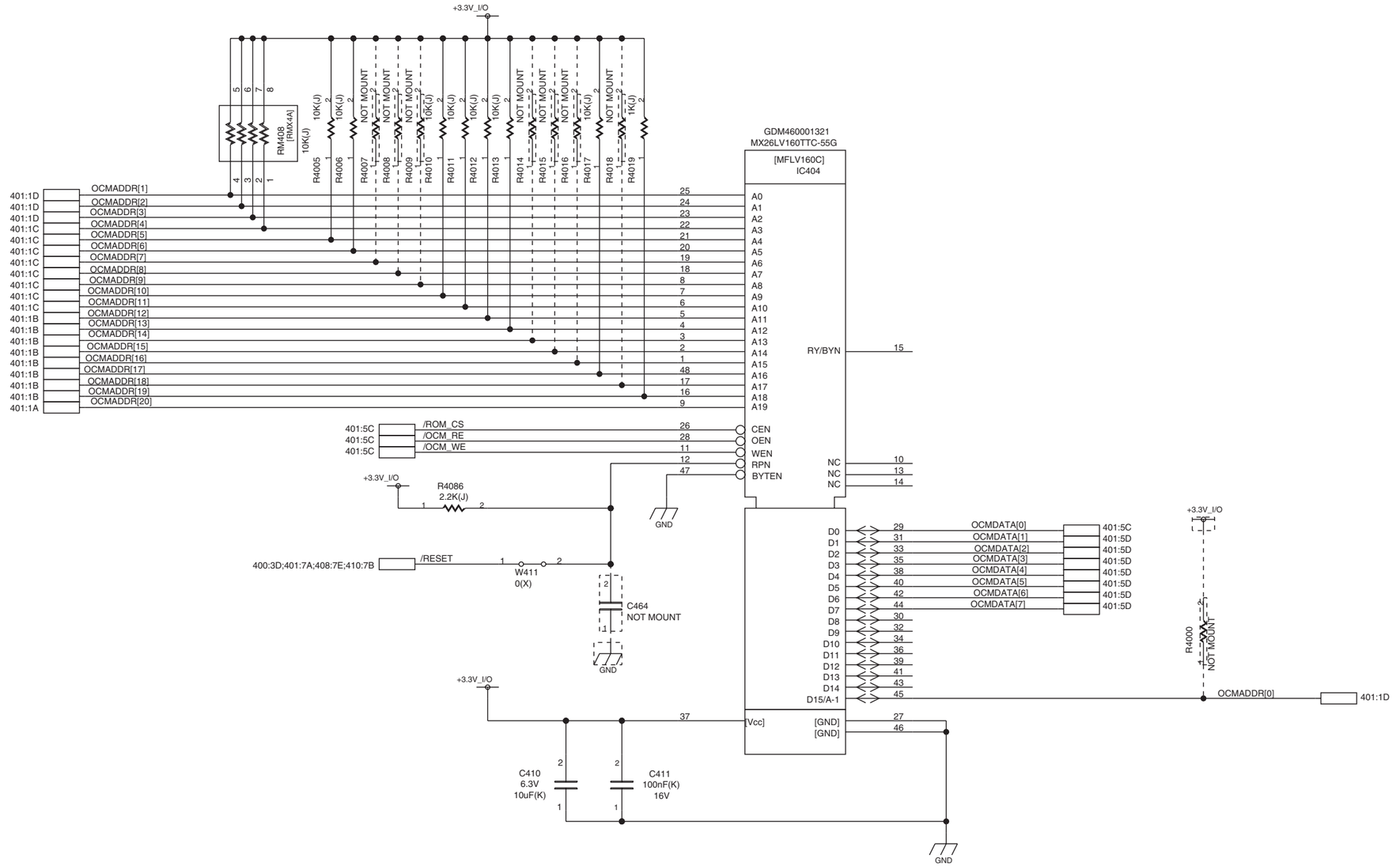
SH.NO.
309



62HM95
SIGNAL (FLI8532 MICRO I/O)

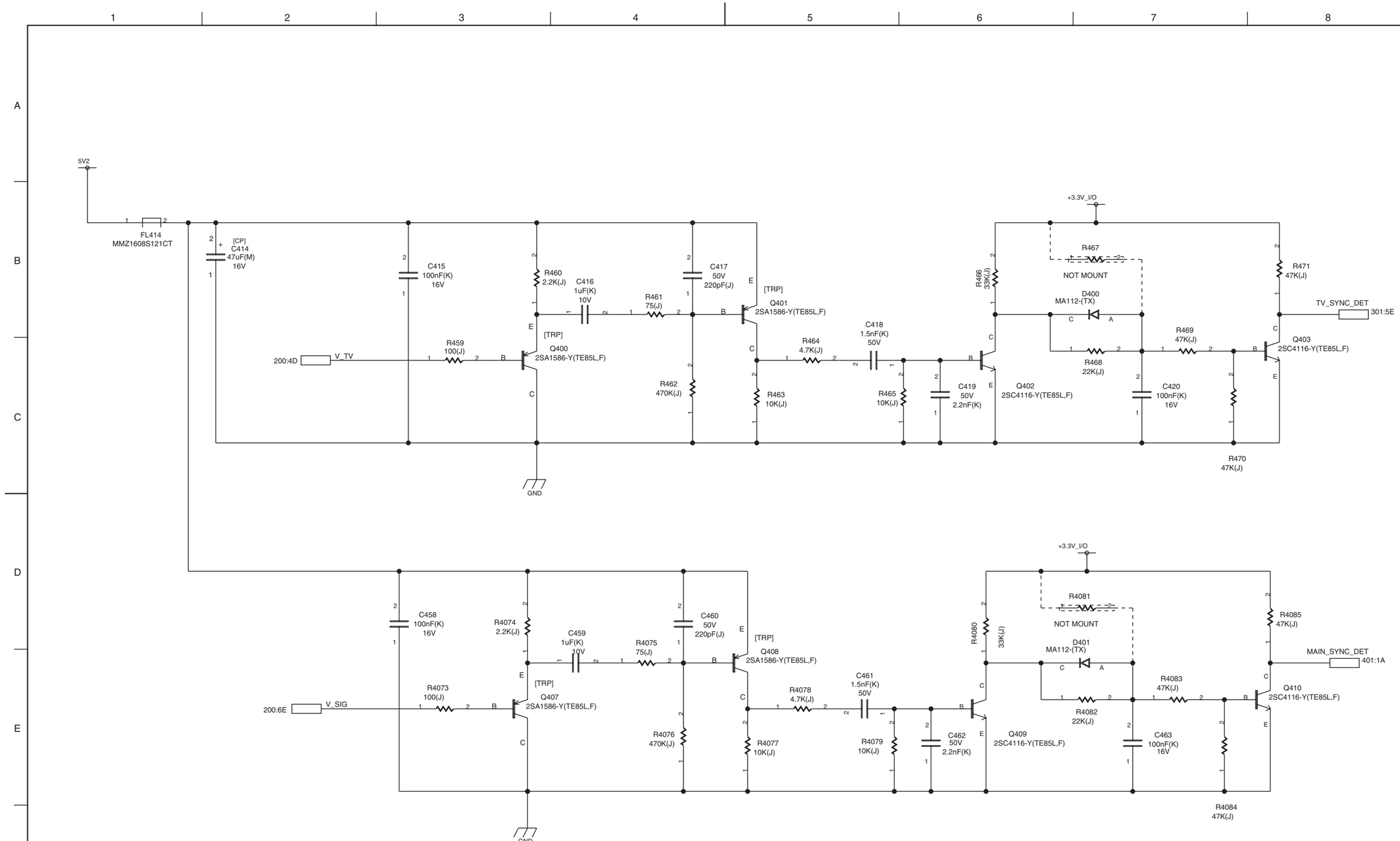
SH.NO.
400


[U8532]
7/9
IC700
MAIN_SYNC_DET
OCMADDR[20]
OCMADDR[19]
OCMADDR[18]
OCMADDR[17]
OCMADDR[16]
OCMADDR[15]
OCMADDR[14]
OCMADDR[13]
OCMADDR[12]
OCMADDR[11]
OCMADDR[10]
OCMADDR[9]
OCMADDR[8]
OCMADDR[7]
OCMADDR[6]
OCMADDR[5]
OCMADDR[4]
OCMADDR[3]
OCMADDR[2]
OCMADDR[1]
OCMADDR[0]
RM400
RM401
RM402
RM403
RM404
[RMX4A]
R440
33(J)
PBIAS
PPWR
GPIO47
GPIO46
GPIO45
GPIO44
JTAG_BS_TDO
JTAG_BS_TMS
OCMCS2n
OCMCS1n
OCMCS0n
ROMCSn
OCMWEn
OCMREn
OCMDATA0
OCMDATA1
OCMDATA2
OCMDATA3
OCMDATA4
OCMDATA5
OCMDATA6
OCMDATA7
OCMDATA8
OCMDATA9
OCMDATA10
OCMDATA11
OCMDATA12
OCMDATA13
OCMDATA14
OCMDATA15
1080I_DB_SW
HDMI_RST
POWER_KEY_S
1080I_HDMI_SW
SPK_OFF
USB
GP4
/OCM_WE
/ROM_CS
/OCM_RE
OCMDATA[0]
OCMDATA[1]
OCMDATA[2]
OCMDATA[3]
OCMDATA[4]
OCMDATA[5]
OCMDATA[6]
OCMDATA[7]
SW_DVI1
SW_DVI2
EPG_SW
PC_CS_SW
1080I_CORTEZ_SW
GP4 (US : MONI_SW)
(MONI_SW2 WOOFER_MUTE)
(VARI/FIX)
/RESET
NOT MOUNT
3.3V1
C477
100nF(K)
16V
[7SH08]
IC421
[Vcc]
[Vss]
W417
STBY_RST
R438
10K(J)
R439
GND
+3.3V_I/O
R2041
AV/S_DET3
R2040
AV/S_DET2
UDZSTE-176.2B
D219
D220
[TRP]
Q404
2SA1586-Y(TE85L,F)
R4026
1K(J)
R4027
1K(J)
R4028
10K(J)
C478
470pF(J)
50V
POWER_SIG_DET
SH.NO.
401
62HM95
SIGNAL (FLI8532 OCM MEMORY I/F)



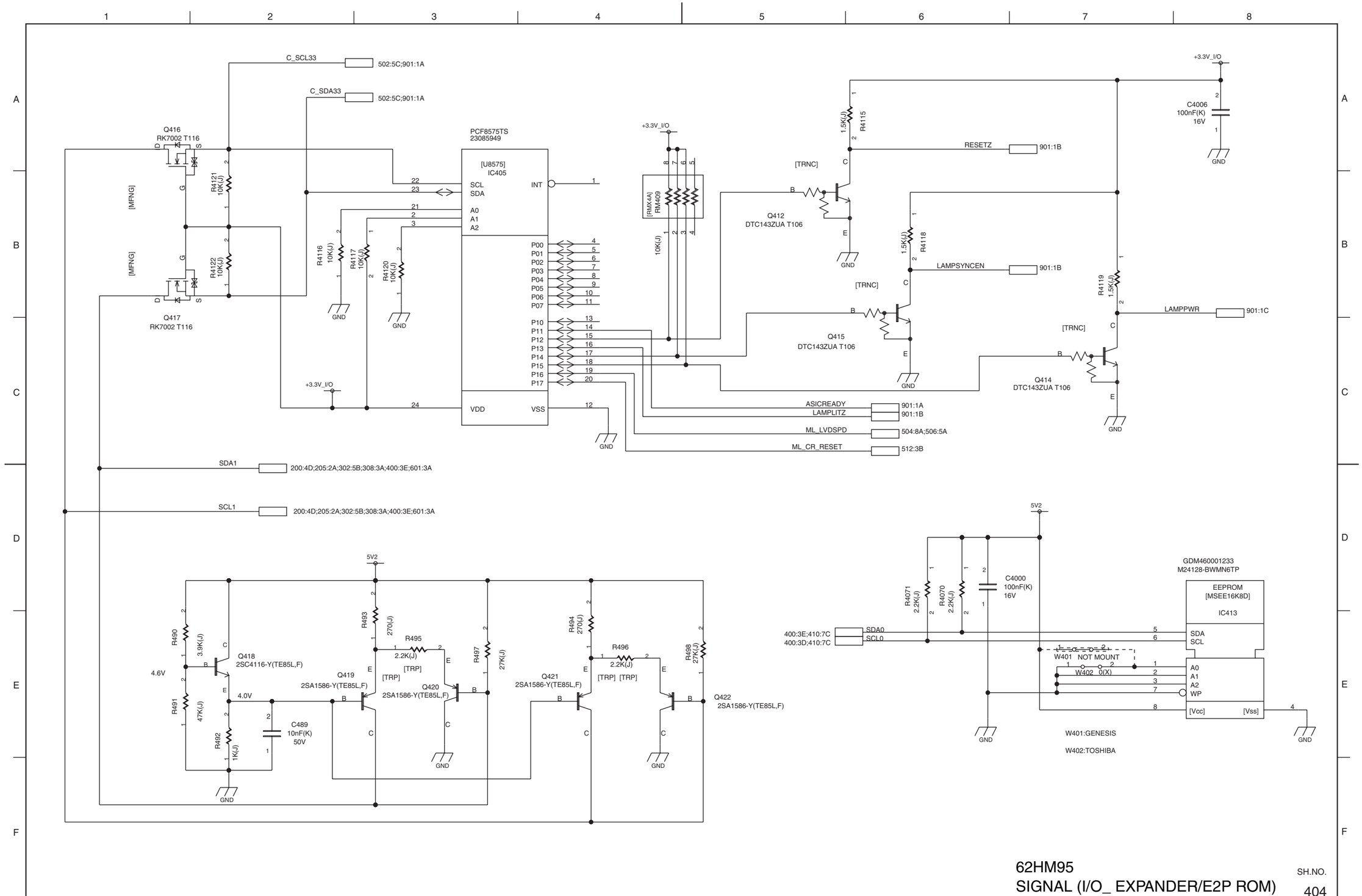
62HM95
SIGNAL (FLASH MEMORY)

SH.NO.
402



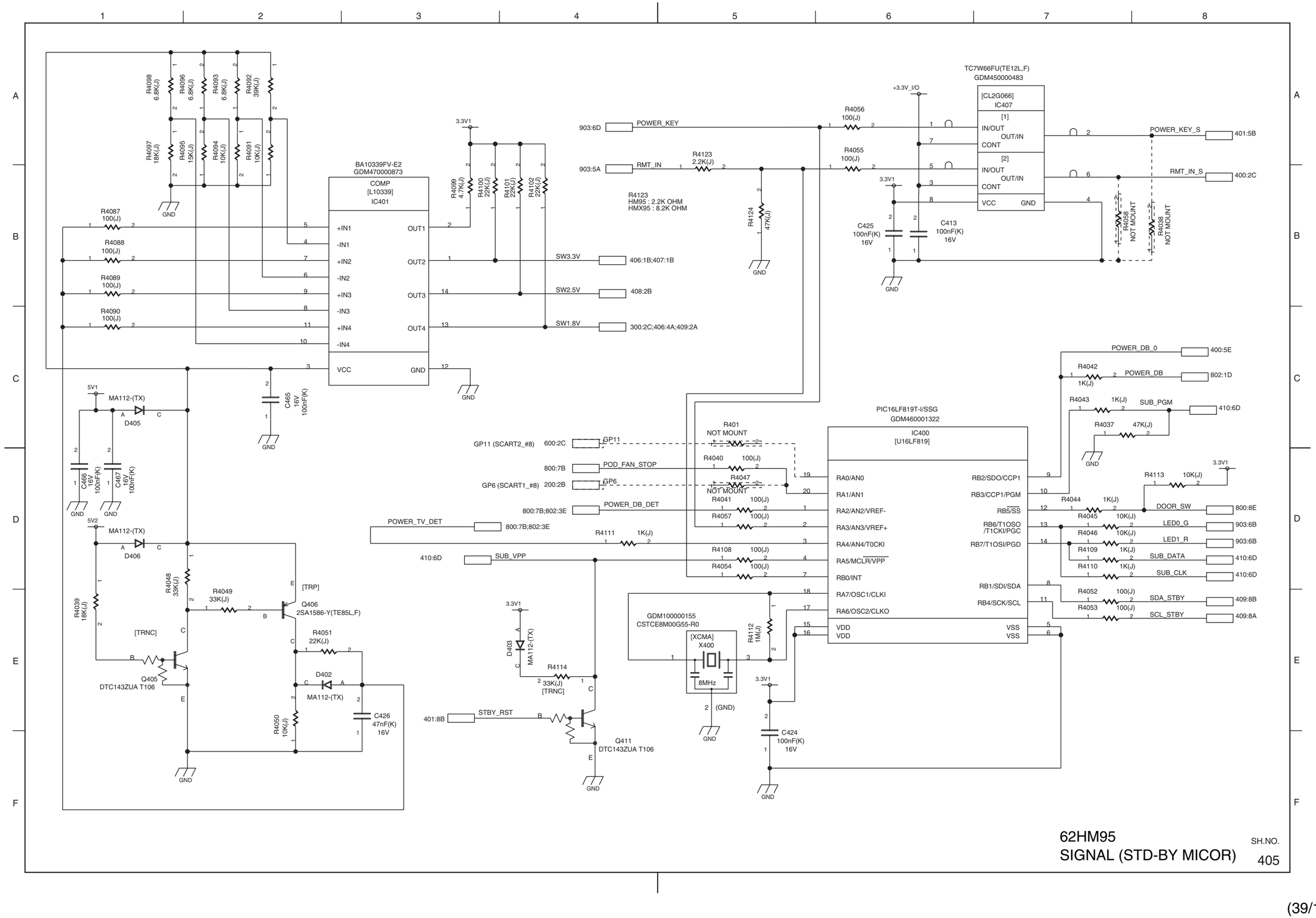
62HM95
SIGNAL (SYNC SEPA)

SH.NO.
403



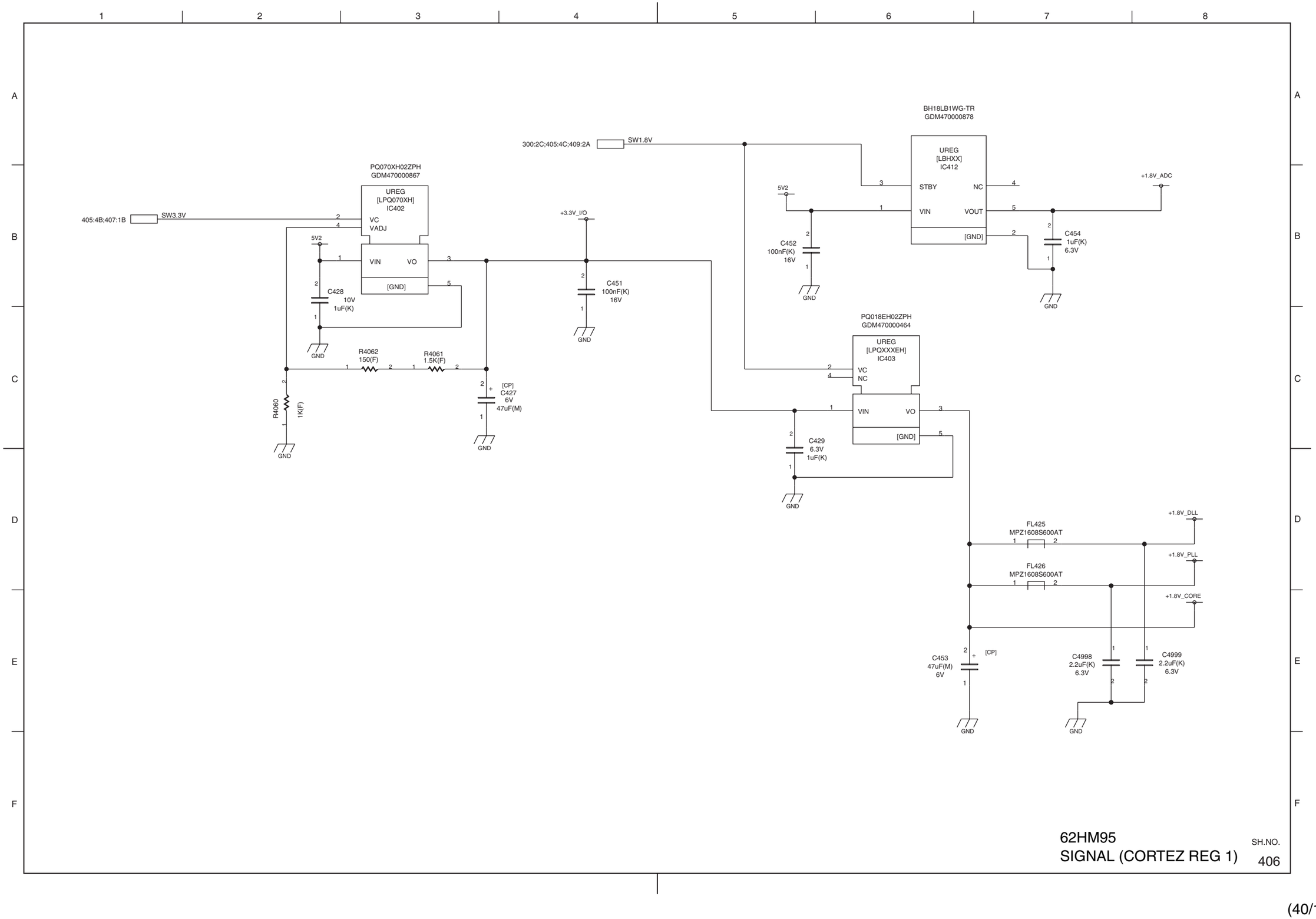
62HM95
SIGNAL (I/O_ EXPANDER/E2P ROM)

SH.NO.
404



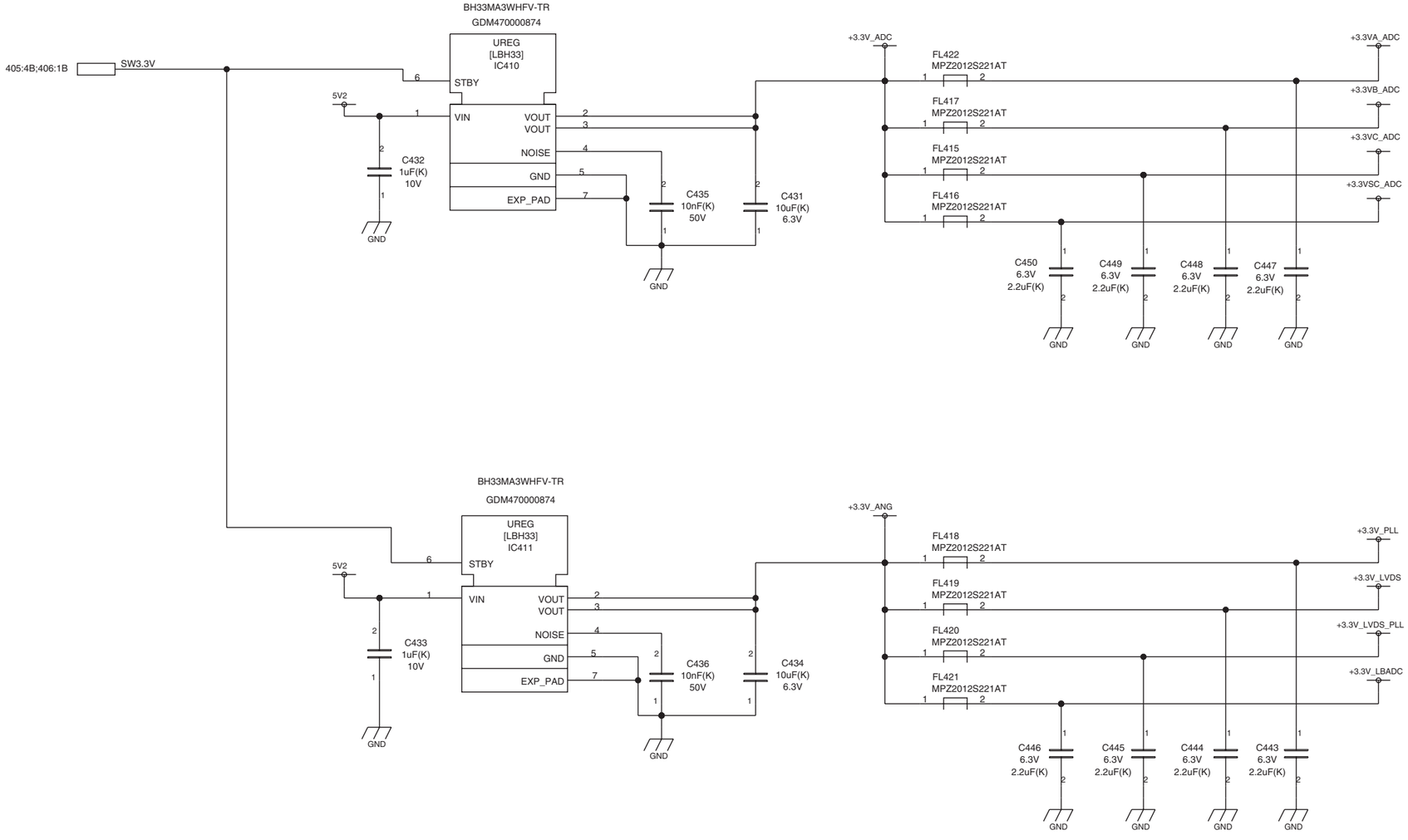
62HM95
SIGNAL (STD-BY MICOR)

SH.NO.
405



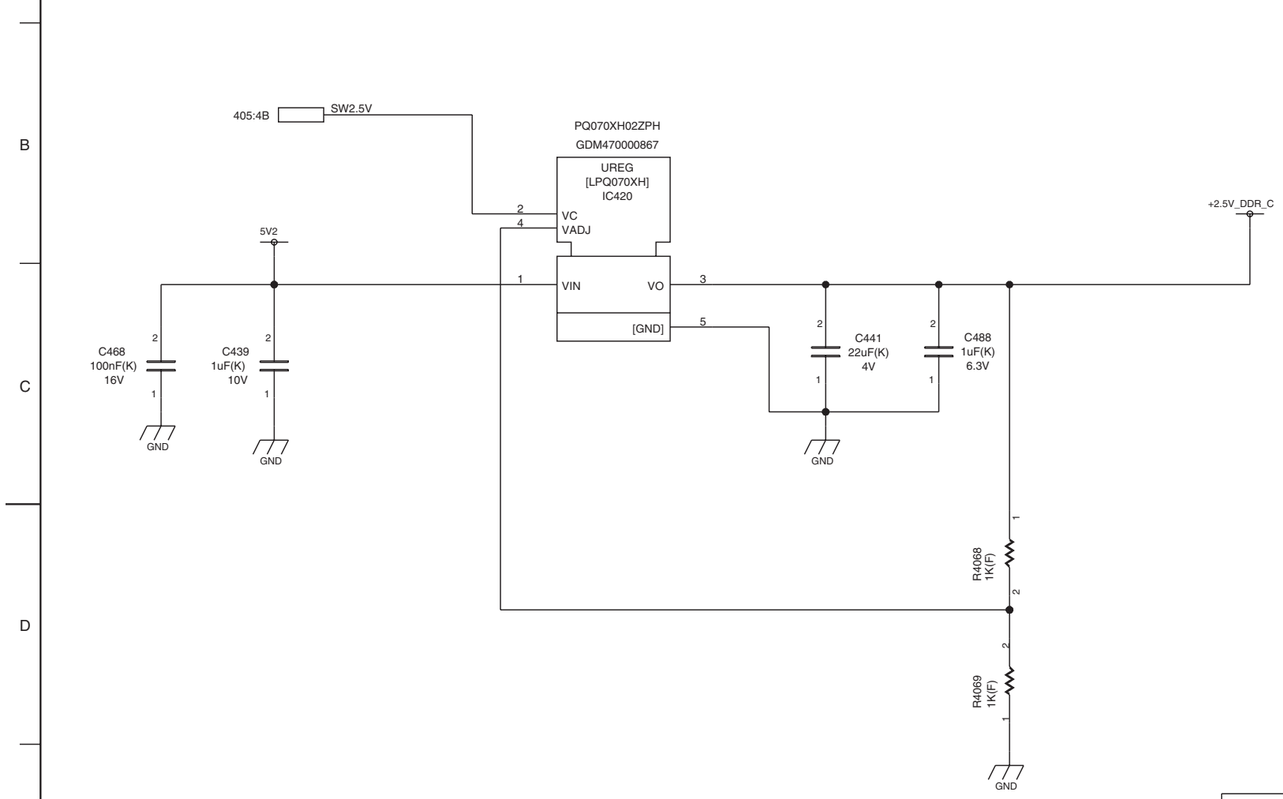
62HM95
SIGNAL (CORTEZ REG 1)

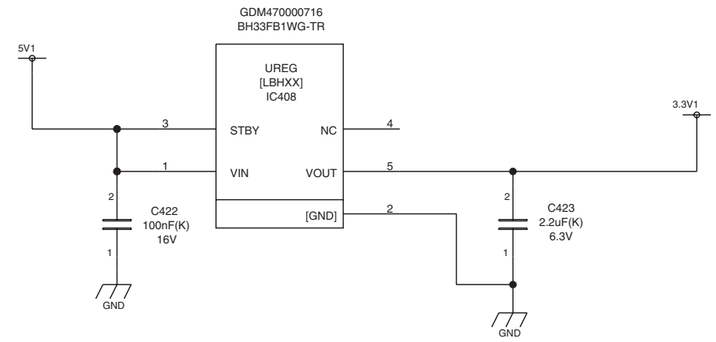
SH.NO.
406

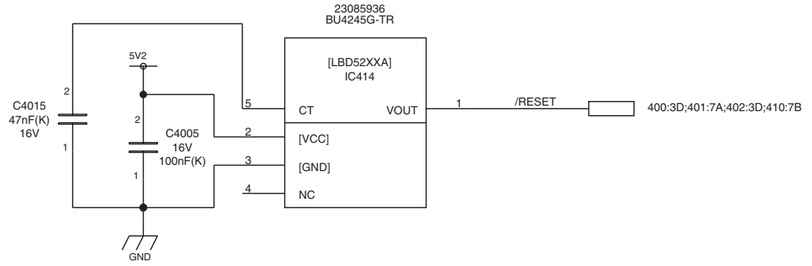


62HM95
SIGNAL (CORTEZ REG 2)

SH.NO.
407

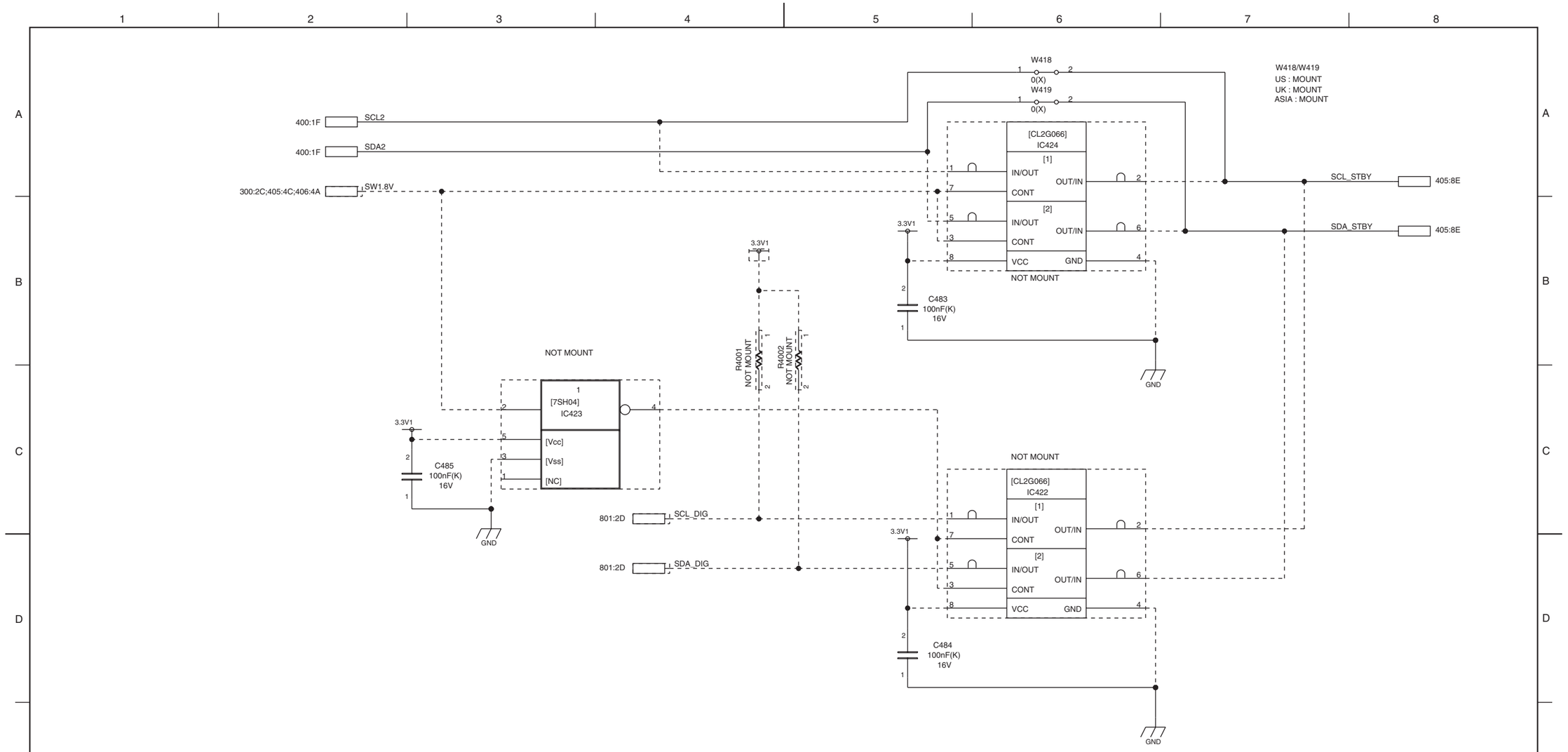






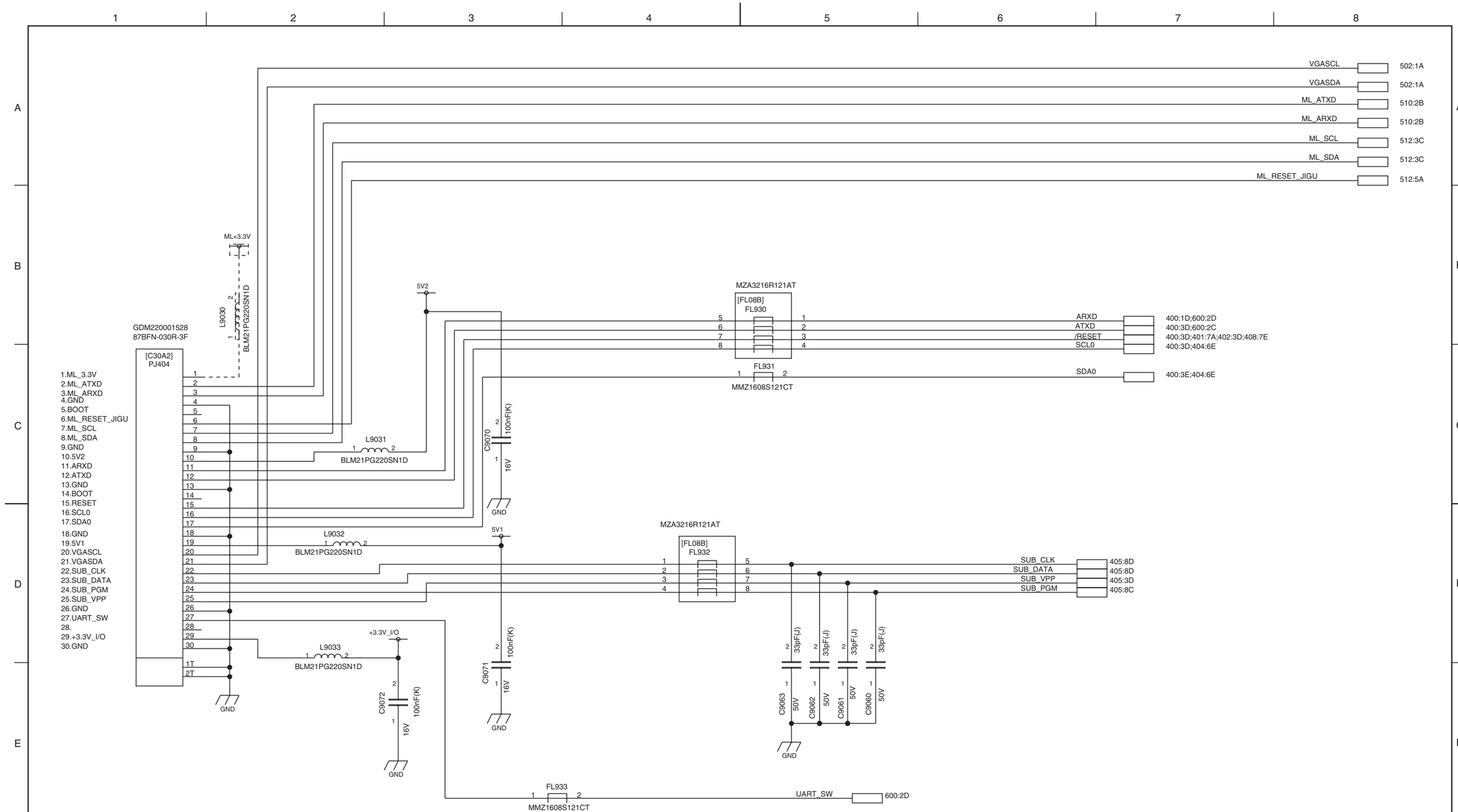
62HM95
SIGNAL (CORTEZ REG 3)

SH.NO.
408



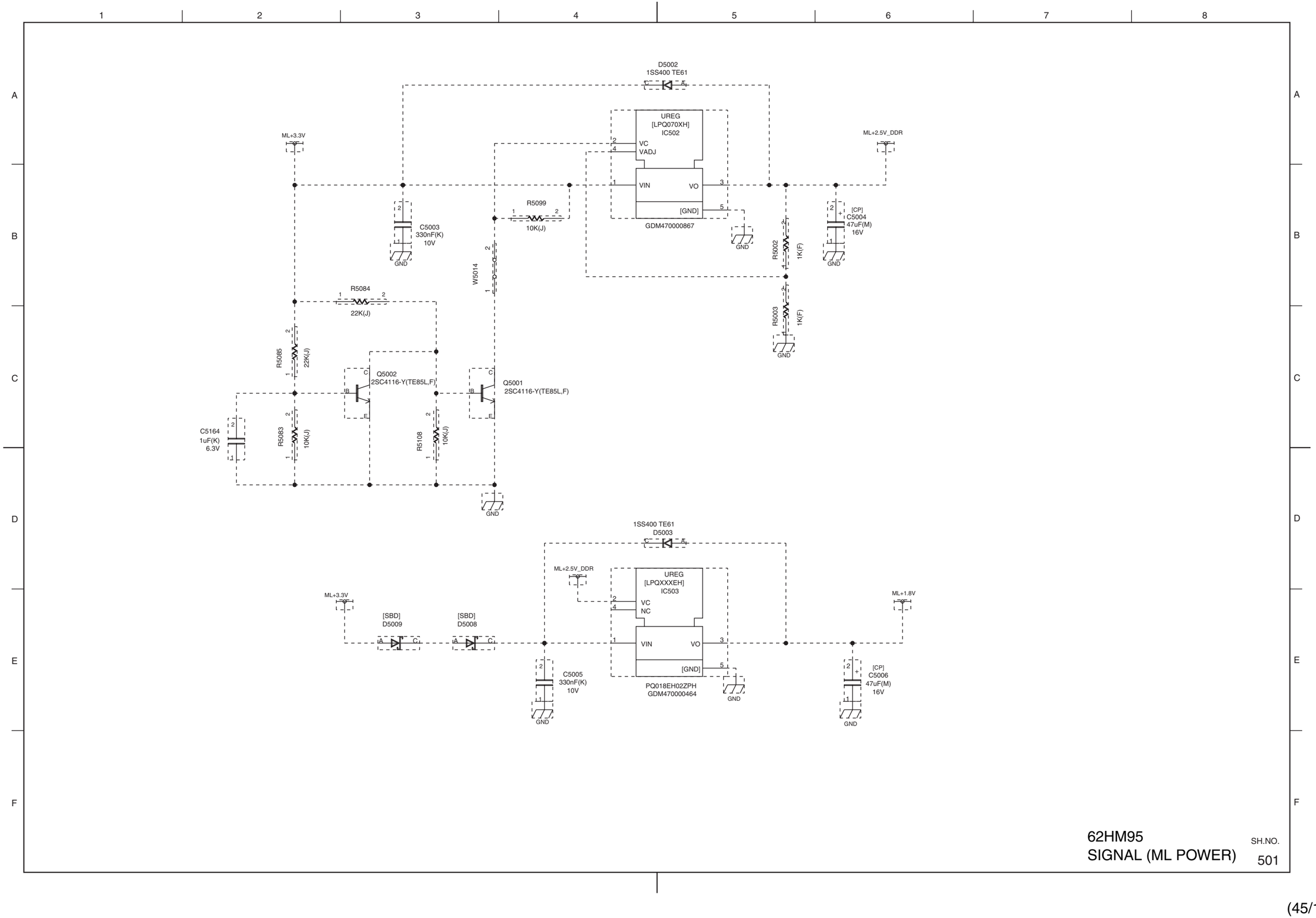
62HM95
SIGNAL (I2C Switch)

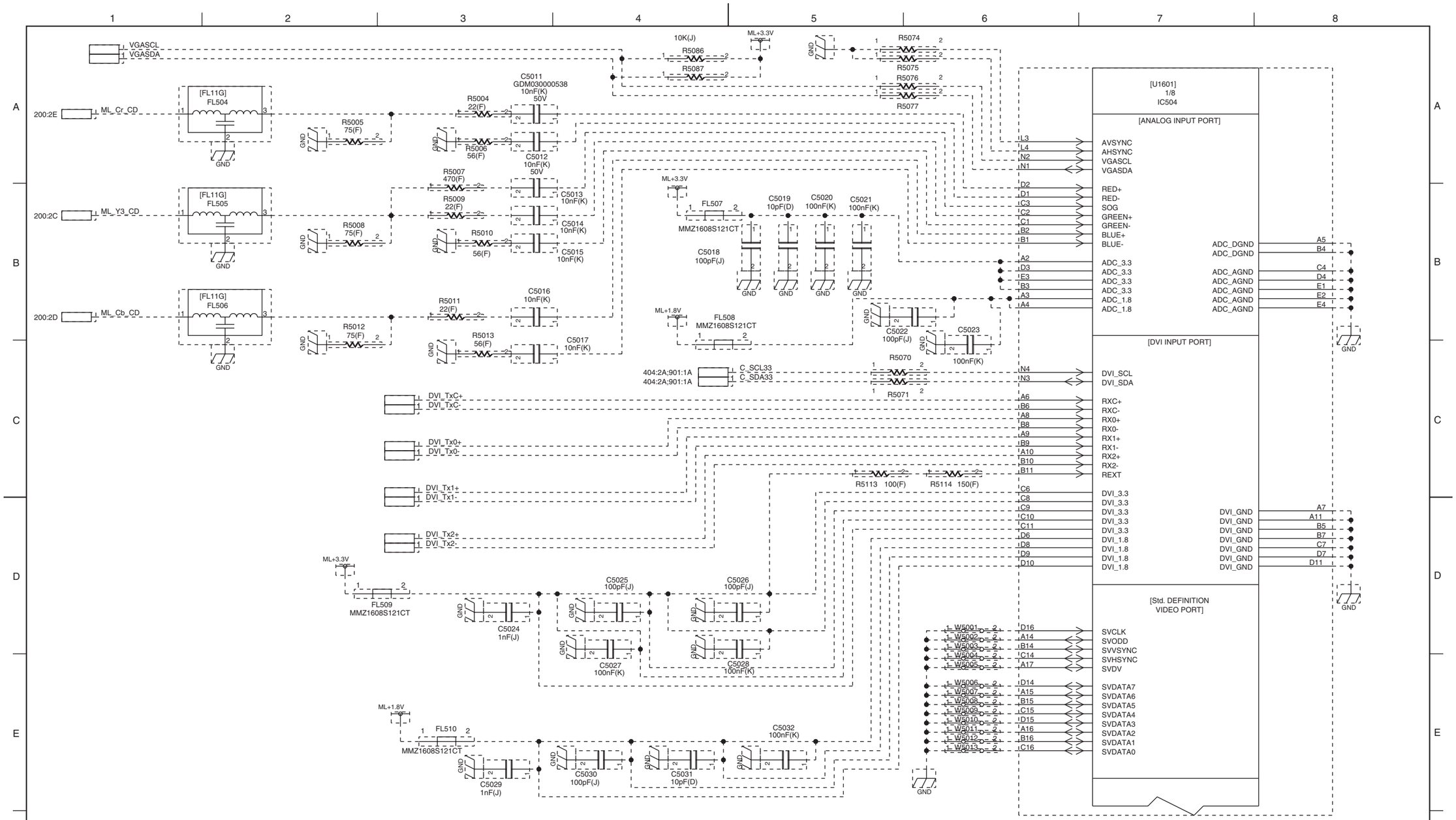
SH.NO.
409



62HM95
SIGNAL (SERVICE CONNECTOR)

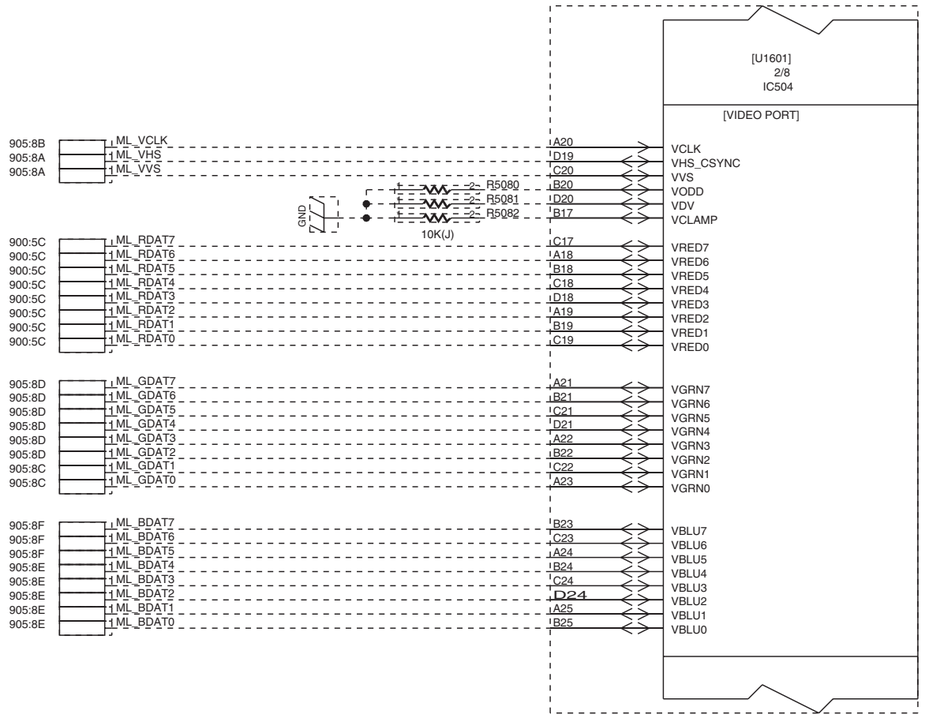
SH.NO.
410


D5002
1SS400 TE61
UREG
[LPQ070XH]
IC502
VC
VADJ
VIN
VO
[GND]
GDM470000867
ML+3.3V
ML+2.5V_DDR
C5003
330nF(K)
10V
R5099
10K(J)
R5084
22K(J)
W5014
R5002
1K(F)
R5003
1K(F)
[CP]
C5004
47uF(M)
16V
R5085
22K(J)
Q5002
2SC4116-Y(TE85L,F)
Q5001
2SC4116-Y(TE85L,F)
C5164
1uF(K)
6.3V
R5083
10K(J)
R5108
10K(J)
GND
1SS400 TE61
D5003
ML+2.5V_DDR
UREG
[LPQXXXEH]
IC503
VC
NC
ML+3.3V
[SBD]
D5009
[SBD]
D5008
ML+1.8V
C5005
330nF(K)
10V
PQ018EH02ZPH
GDM470000464
[CP]
C5006
47uF(M)
16V
62HM95
SIGNAL (ML POWER)
SH.NO.
501



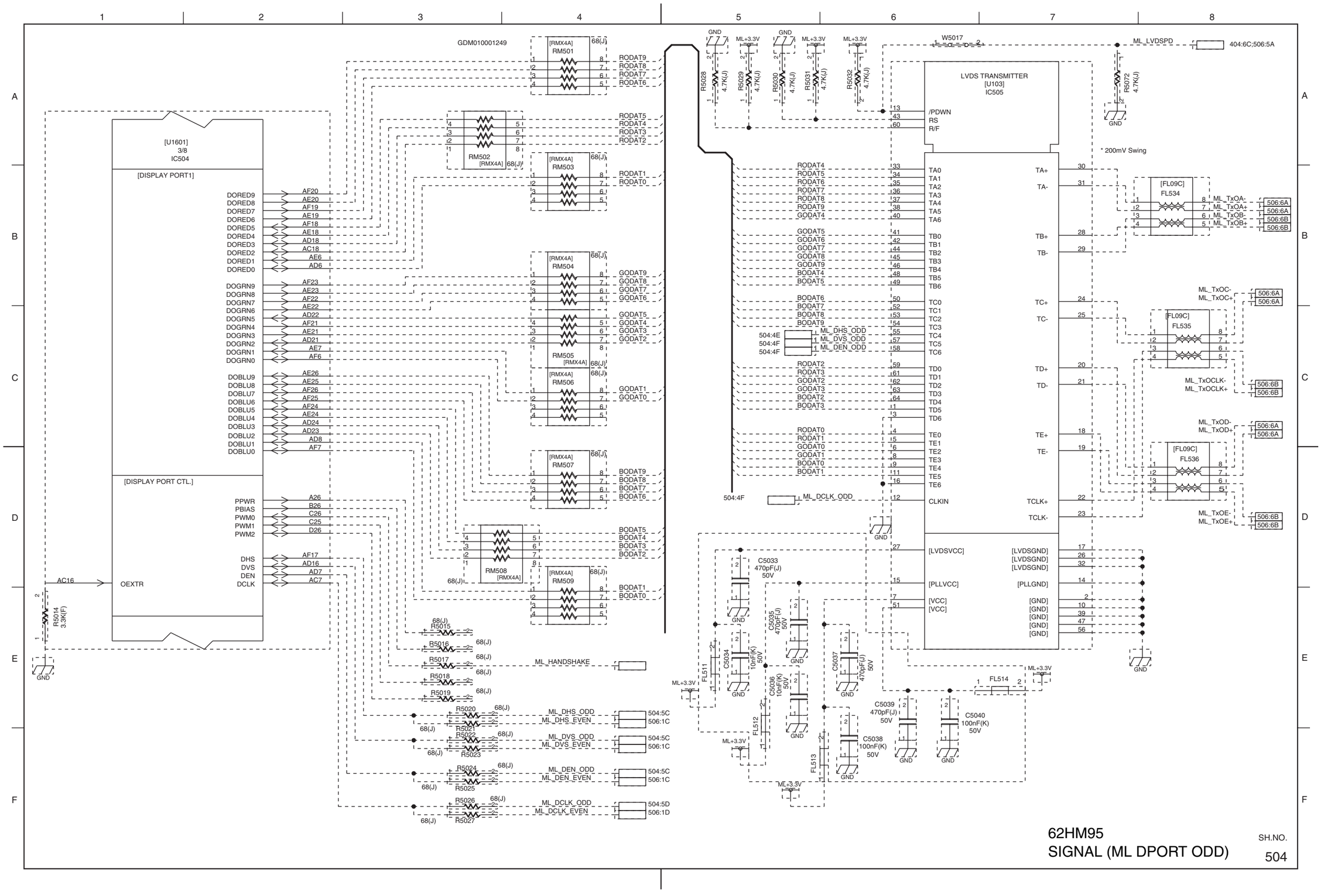
62HM95
SIGNAL (ML ANALOG INPUT)

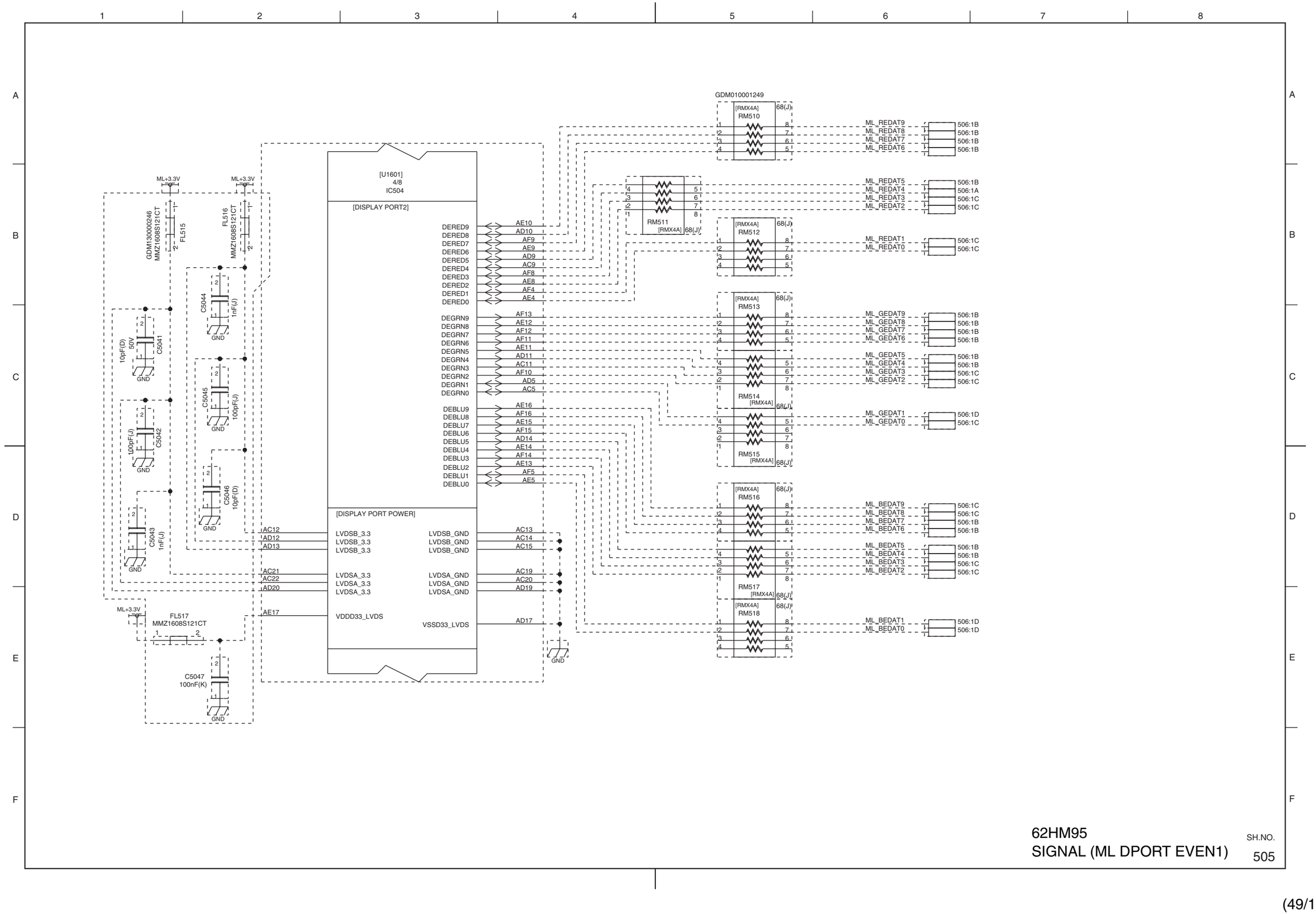
SH.NO.
502



62HM95
SIGNAL (ML DIGITAL INPUT)

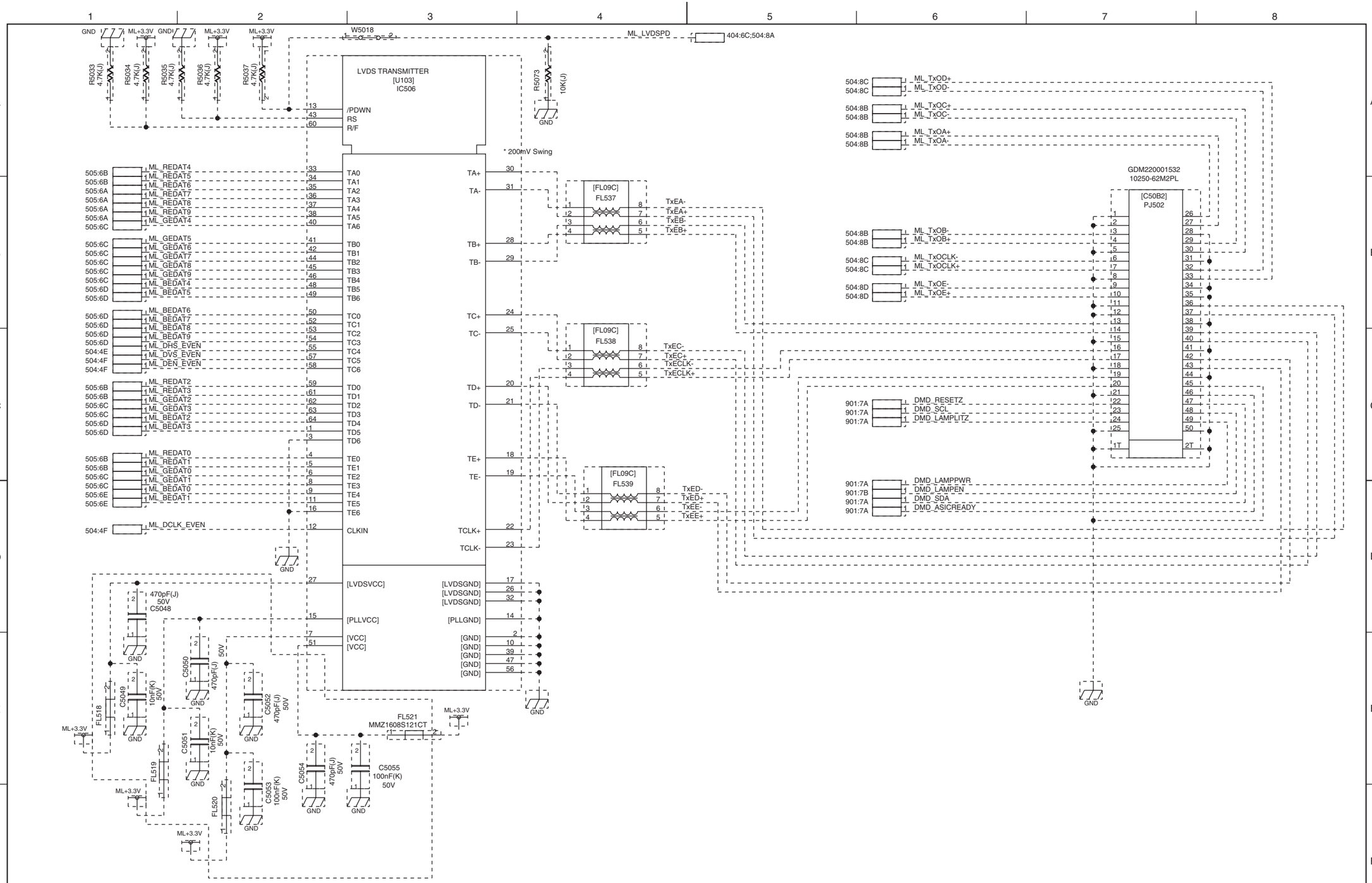
SH.NO.
503


GDM010001249
[U1601]
3/8
IC504
[DISPLAY PORT1]
[DISPLAY PORT CTL.]
OEXTR
AC16
R5014
3.3K(F)
RM501
RM502
RM503
RM504
RM505
RM506
RM507
RM508
RM509
[RMX4A]
68(J)
RODAT9
RODAT8
RODAT7
RODAT6
RODAT5
RODAT4
RODAT3
RODAT2
RODAT1
RODAT0
GODAT9
GODAT8
GODAT7
GODAT6
GODAT5
GODAT4
GODAT3
GODAT2
GODAT1
GODAT0
BODAT9
BODAT8
BODAT7
BODAT6
BODAT5
BODAT4
BODAT3
BODAT2
BODAT1
BODAT0
DORED9
DORED8
DORED7
DORED6
DORED5
DORED4
DORED3
DORED2
DORED1
DORED0
DOGRN9
DOGRN8
DOGRN7
DOGRN6
DOGRN5
DOGRN4
DOGRN3
DOGRN2
DOGRN1
DOGRN0
DOBLU9
DOBLU8
DOBLU7
DOBLU6
DOBLU5
DOBLU4
DOBLU3
DOBLU2
DOBLU1
DOBLU0
PPWR
PBIAS
PWM0
PWM1
PWM2
DHS
DVS
DEN
DCLK
R5015
R5016
R5017
R5018
R5019
R5020
R5021
R5022
R5023
R5024
R5025
R5026
R5027
ML_HANDSHAKE
ML_DHS_ODD
ML_DHS_EVEN
ML_DVS_ODD
ML_DVS_EVEN
ML_DEN_ODD
ML_DEN_EVEN
ML_DCLK_ODD
ML_DCLK_EVEN
504:5C
506:1C
504:5D
506:1D
GND
ML+3.3V
R5028
R5029
R5030
R5031
R5032
4.7K(J)
W5017
ML_LVDSPD
404:6C;506:5A
R5072
LVDS TRANSMITTER
[U103]
IC505
/PDWN
RS
R/F
TA0
TA1
TA2
TA3
TA4
TA5
TA6
TB0
TB1
TB2
TB3
TB4
TB5
TB6
TC0
TC1
TC2
TC3
TC4
TC5
TC6
TD0
TD1
TD2
TD3
TD4
TD5
TD6
TE0
TE1
TE2
TE3
TE4
TE5
TE6
CLKIN
TA+
TA-
TB+
TB-
TC+
TC-
TD+
TD-
TE+
TE-
TCLK+
TCLK-
* 200mV Swing
[FL09C]
FL534
FL535
FL536
ML_TxOA-
ML_TxOA+
ML_TxOB-
ML_TxOB+
ML_TxOC-
ML_TxOC+
ML_TxOCLK-
ML_TxOCLK+
ML_TxOD-
ML_TxOD+
ML_TxOE-
ML_TxOE+
506:6A
506:6B
[LVDSVCC]
[LVDSGND]
[PLLVCC]
[PLLGND]
[VCC]
[GND]
C5033
470pF(J)
50V
C5034
10nF(K)
50V
C5035
470pF(J)
50V
C5036
10nF(K)
50V
C5037
470pF(J)
50V
C5038
100nF(K)
50V
C5039
470pF(J)
50V
C5040
100nF(K)
50V
FL511
FL512
FL513
FL514
62HM95
SIGNAL (ML DPORT ODD)
SH.NO.
504



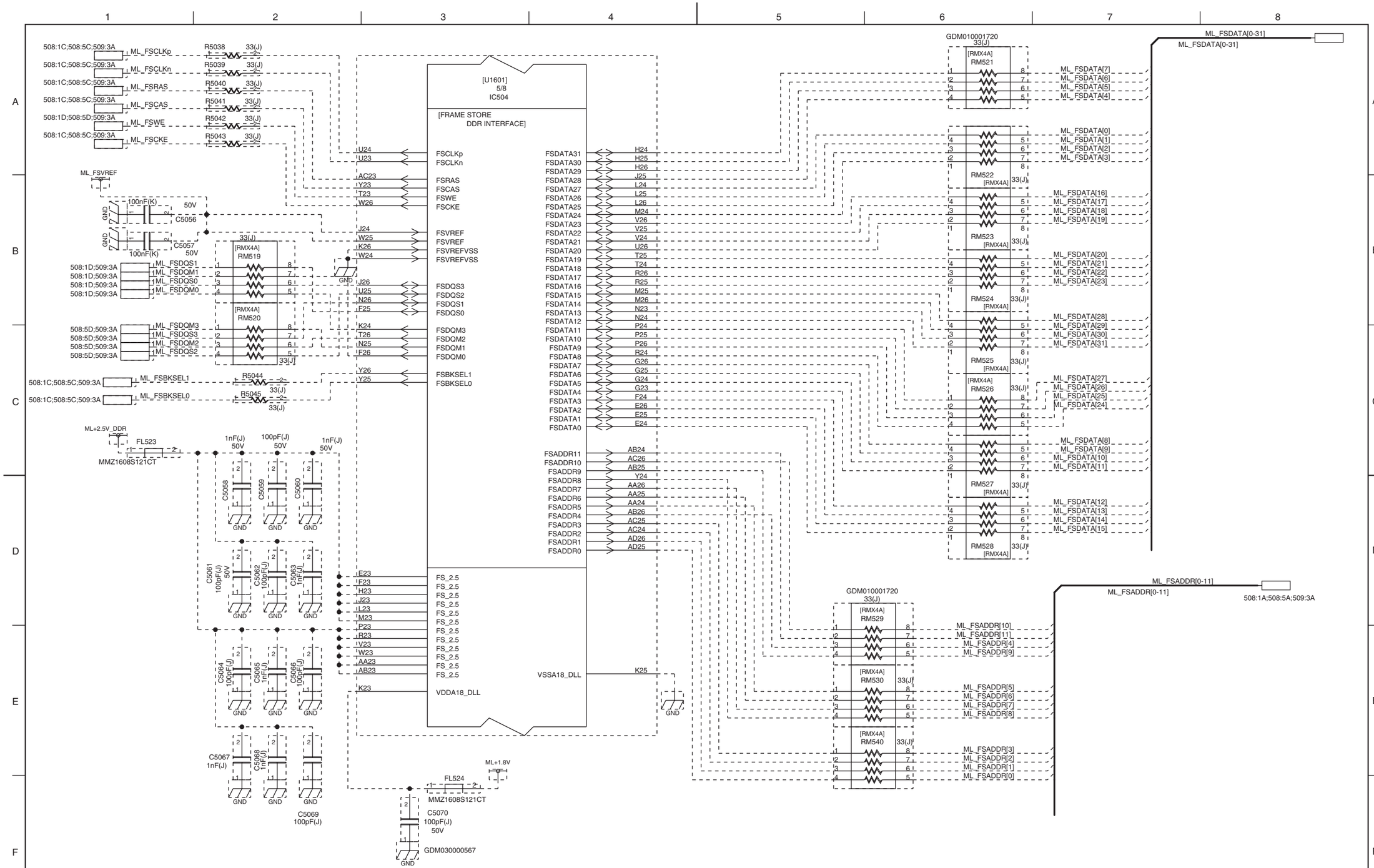
62HM95
SIGNAL (ML DPORT EVEN1)

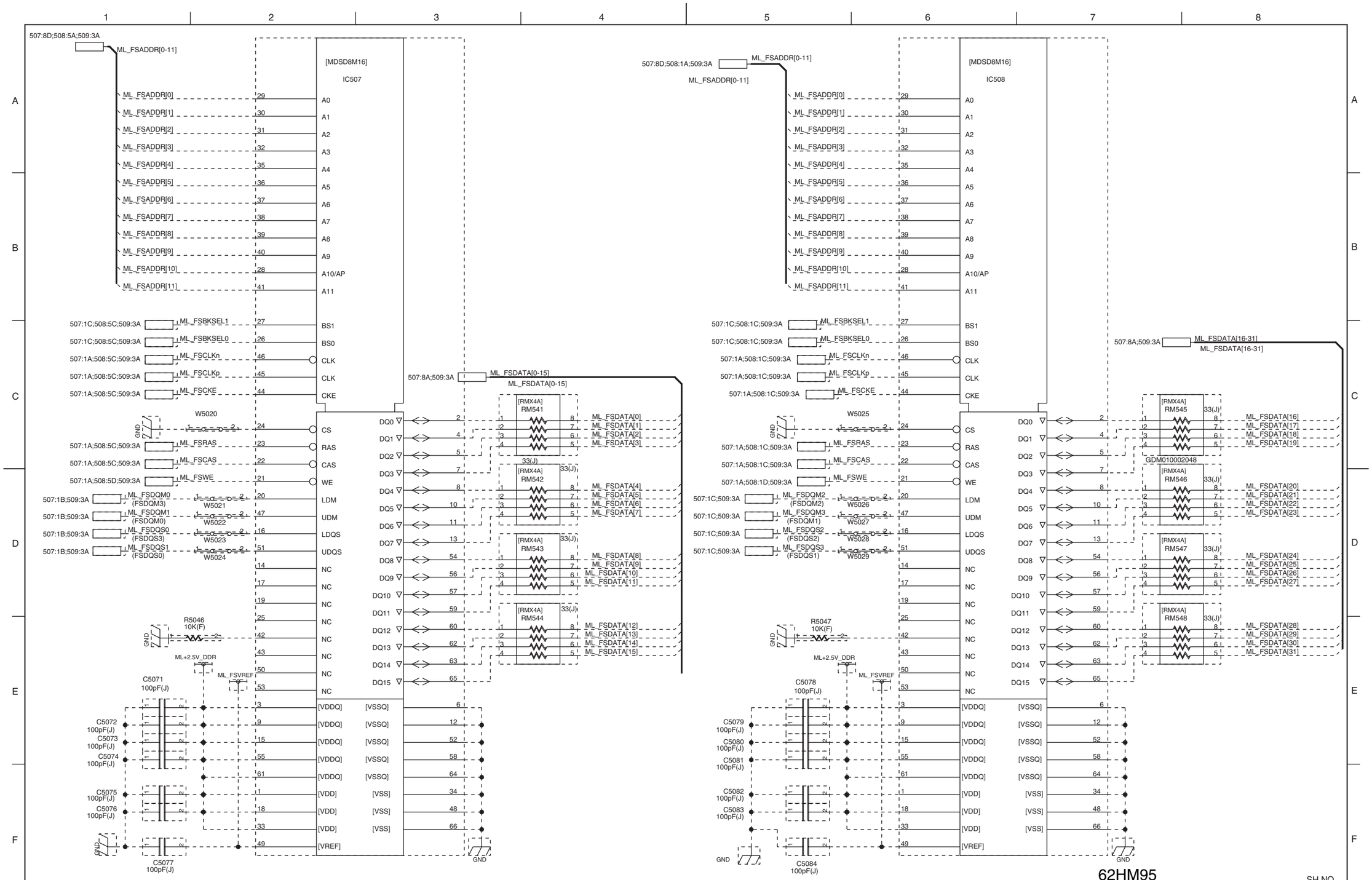
SH.NO.
505



62HM95
SIGNAL (ML DPORT EVEN2)

SH.NO. 506


[U1601]
5/8
IC504
[FRAME STORE
DDR INTERFACE]
FSCLKp
FSCLKn
FSRAS
FSCAS
FSWE
FSCKE
FSVREF
FSVREF
FSVREFVSS
FSVREFVSS
FSDQS3
FSDQS2
FSDQS1
FSDQS0
FSDQM3
FSDQM2
FSDQM1
FSDQM0
FSBKSEL1
FSBKSEL0
FSDATA31
FSDATA30
FSDATA29
FSDATA28
FSDATA27
FSDATA26
FSDATA25
FSDATA24
FSDATA23
FSDATA22
FSDATA21
FSDATA20
FSDATA19
FSDATA18
FSDATA17
FSDATA16
FSDATA15
FSDATA14
FSDATA13
FSDATA12
FSDATA11
FSDATA10
FSDATA9
FSDATA8
FSDATA7
FSDATA6
FSDATA5
FSDATA4
FSDATA3
FSDATA2
FSDATA1
FSDATA0
FSADDR11
FSADDR10
FSADDR9
FSADDR8
FSADDR7
FSADDR6
FSADDR5
FSADDR4
FSADDR3
FSADDR2
FSADDR1
FSADDR0
FS_2.5
VDDA18_DLL
VSSA18_DLL
ML_FSCLKp
ML_FSCLKn
ML_FSRAS
ML_FSCAS
ML_FSWE
ML_FSCKE
ML_FSVREF
ML_FSDQS1
ML_FSDQM1
ML_FSDQS0
ML_FSDQM0
ML_FSDQM3
ML_FSDQS3
ML_FSDQM2
ML_FSDQS2
ML_FSBKSEL1
ML_FSBKSEL0
ML+2.5V_DDR
FL523
MMZ1608S121CT
ML+1.8V
FL524
MMZ1608S121CT
GDM030000567
GDM010001720
33(J)
ML_FSDATA[0-31]
ML_FSADDR[0-11]
508:1A;508:5A;509:3A
62HM95
SIGNAL (ML DDR INTERFACE)
SH.NO.
507


1
2
3
4
5
6
7
8
A
B
C
D
E
F
507:8D;508:5A;509:3A
ML_FSADDR[0-11]
[MDSD8M16]
IC507
ML_FSADDR[0] 29 A0
ML_FSADDR[1] 30 A1
ML_FSADDR[2] 31 A2
ML_FSADDR[3] 32 A3
ML_FSADDR[4] 35 A4
ML_FSADDR[5] 36 A5
ML_FSADDR[6] 37 A6
ML_FSADDR[7] 38 A7
ML_FSADDR[8] 39 A8
ML_FSADDR[9] 40 A9
ML_FSADDR[10] 28 A10/AP
ML_FSADDR[11] 41 A11
507:1C;508:5C;509:3A ML_FSBKSEL1 27 BS1
507:1C;508:5C;509:3A ML_FSBKSEL0 26 BS0
507:1A;508:5C;509:3A ML_FSCLKn 46 CLK
507:1A;508:5C;509:3A ML_FSCLKp 45 CLK
507:1A;508:5C;509:3A ML_FSCKE 44 CKE
W5020
GND
507:1A;508:5C;509:3A ML_FSRAS 23 RAS
507:1A;508:5C;509:3A ML_FSCAS 22 CAS
507:1A;508:5D;509:3A ML_FSWE 21 WE
507:1B;509:3A ML_FSDQM0 (FSDQM3) W5021 20 LDM
507:1B;509:3A ML_FSDQM1 (FSDQM0) W5022 47 UDM
507:1B;509:3A ML_FSDQS0 (FSDQS3) W5023 16 LDQS
507:1B;509:3A ML_FSDQS1 (FSDQS0) W5024 51 UDQS
14 NC
17 NC
19 NC
25 NC
42 NC
43 NC
50 NC
53 NC
R5046
10K(F)
ML+2.5V_DDR
ML_FSVREF
C5071
100pF(J)
C5072
100pF(J)
C5073
100pF(J)
C5074
100pF(J)
C5075
100pF(J)
C5076
100pF(J)
C5077
100pF(J)
3 [VDDQ]
9 [VDDQ]
15 [VDDQ]
55 [VDDQ]
61 [VDDQ]
1 [VDD]
18 [VDD]
33 [VDD]
49 [VREF]
[VSSQ]
[VSSQ]
[VSSQ]
[VSSQ]
[VSSQ]
[VSS]
[VSS]
[VSS]
6
12
52
58
64
34
48
66
GND
507:8A;509:3A
ML_FSDATA[0-15]
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
[RMX4A]
RM541
33(J)
ML_FSDATA[0]
ML_FSDATA[1]
ML_FSDATA[2]
ML_FSDATA[3]
RM542
ML_FSDATA[4]
ML_FSDATA[5]
ML_FSDATA[6]
ML_FSDATA[7]
RM543
ML_FSDATA[8]
ML_FSDATA[9]
ML_FSDATA[10]
ML_FSDATA[11]
RM544
ML_FSDATA[12]
ML_FSDATA[13]
ML_FSDATA[14]
ML_FSDATA[15]
507:8D;508:1A;509:3A
ML_FSADDR[0-11]
[MDSD8M16]
IC508
507:1C;508:1C;509:3A ML_FSBKSEL1
507:1C;508:1C;509:3A ML_FSBKSEL0
507:1A;508:1C;509:3A ML_FSCLKn
507:1A;508:1C;509:3A ML_FSCLKp
507:1A;508:1C;509:3A ML_FSCKE
W5025
507:1A;508:1C;509:3A ML_FSRAS
507:1A;508:1C;509:3A ML_FSCAS
507:1A;508:1D;509:3A ML_FSWE
507:1C;509:3A ML_FSDQM2 (FSDQM2) W5026
507:1C;509:3A ML_FSDQM3 (FSDQM1) W5027
507:1C;509:3A ML_FSDQS2 (FSDQS2) W5028
507:1C;509:3A ML_FSDQS3 (FSDQS1) W5029
R5047
10K(F)
C5078
100pF(J)
C5079
100pF(J)
C5080
100pF(J)
C5081
100pF(J)
C5082
100pF(J)
C5083
100pF(J)
C5084
100pF(J)
507:8A;509:3A
ML_FSDATA[16-31]
RM545
ML_FSDATA[16]
ML_FSDATA[17]
ML_FSDATA[18]
ML_FSDATA[19]
GDM010002048
RM546
ML_FSDATA[20]
ML_FSDATA[21]
ML_FSDATA[22]
ML_FSDATA[23]
RM547
ML_FSDATA[24]
ML_FSDATA[25]
ML_FSDATA[26]
ML_FSDATA[27]
RM548
ML_FSDATA[28]
ML_FSDATA[29]
ML_FSDATA[30]
ML_FSDATA[31]
62HM95
SIGNAL (ML DDR SDRAM)
SH.NO.
508

ML_FSADDR[0-11],ML_FSBKSEL0,ML_FSBKSEL1,ML_FSCAS,ML_FSCKE,ML_FSCLKn,ML_FSCLKp,ML_FSDATA[0-31],ML_FSDQM0,ML_FSDQM1,ML_FSDQM2,ML_FSDQM3,ML_FSDQS0,ML_FSDQS1,ML_FSDQS2,ML_FSDQS3,ML_FSRAS,ML_FSWE

ML+2.5V_DDR

R5049

REG.
[L2995]
IC509
LP2995MX
VDDQ
VREF
VSENSE
NC
VTT
[AVIN]
[PVIN]
[GND]

W5030

ML_FSVREF

C5085 1uF(K) 10V

C5086 220uF(M) [CP] 16V

C5087 10nF(K)

R5055 10K(F)

GND

C5088 100nF(K)
C5089 100nF(K)
C5090 100nF(K)
C5091 100nF(K)
C5092 100nF(K)
C5093 100nF(K)
C5094 100nF(K)
C5095 100nF(K)
C5096 100nF(K)
C5097 100nF(K)
C5098 100nF(K)

RM549 [RMX4A] ML_FSDATA[31] ML_FSDATA[30] ML_FSDATA[29] ML_FSDATA[28]
RM550 [RMX4A] ML_FSDATA[27] ML_FSDATA[26] ML_FSDATA[25] ML_FSDATA[24]
RM551 [RMX4A] ML_FSDATA[23] ML_FSDATA[22] ML_FSDATA[21] ML_FSDATA[20]
RM552 [RMX4A] ML_FSDATA[19] ML_FSDATA[18] ML_FSDATA[17] ML_FSDATA[16]
RM553 [RMX4A] ML_FSDATA[15] ML_FSDATA[14] ML_FSDATA[13] ML_FSDATA[12]
RM554 [RMX4A] ML_FSDATA[11] ML_FSDATA[10] ML_FSDATA[9] ML_FSDATA[8]
RM555 [RMX4A] ML_FSDATA[7] ML_FSDATA[6] ML_FSDATA[5] ML_FSDATA[4]
RM556 [RMX4A] ML_FSDATA[3] ML_FSDATA[2] ML_FSDATA[1] ML_FSDATA[0]
RM557 [RMX4A] ML_FSADDR[10] ML_FSADDR[11] ML_FSADDR[9] ML_FSADDR[8]
RM558 [RMX4A] ML_FSADDR[7] ML_FSADDR[6] ML_FSADDR[5] ML_FSADDR[4]
RM559 [RMX4A] ML_FSADDR[3] ML_FSADDR[2] ML_FSADDR[1] ML_FSADDR[0]

150(J)

RM562 [RMX4A] ML_FSRAS ML_FSCAS ML_FSWE
RM561 [RMX4A] ML_FSDQS0 ML_FSDQM0 ML_FSDQM1 ML_FSDQS1
[RMX4A] RM560 ML_FSDQS3 ML_FSDQM3 ML_FSDQM2 ML_FSDQS2

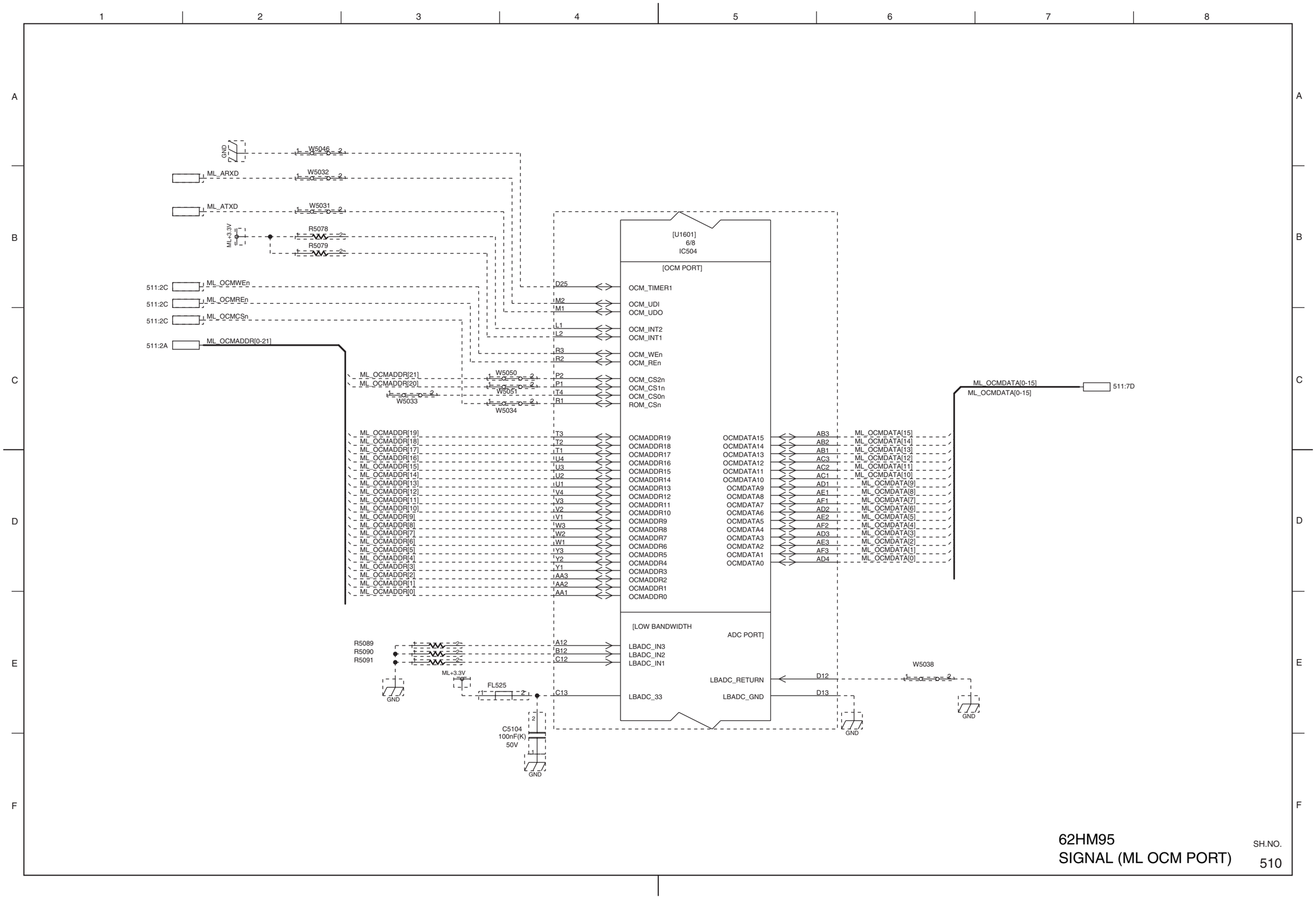
R5054 150(J) ML_FSBKSEL1
R5053 150(J) ML_FSBKSEL0
R5052 150(J) ML_FSCLKn
R5051 150(J) ML_FSCLKp
R5050 150(J) ML_FSCKE

C5103 100nF(K)
C5102 100nF(K)
C5101 100nF(K)
C5100 100nF(K)
C5099 100nF(K)

GND

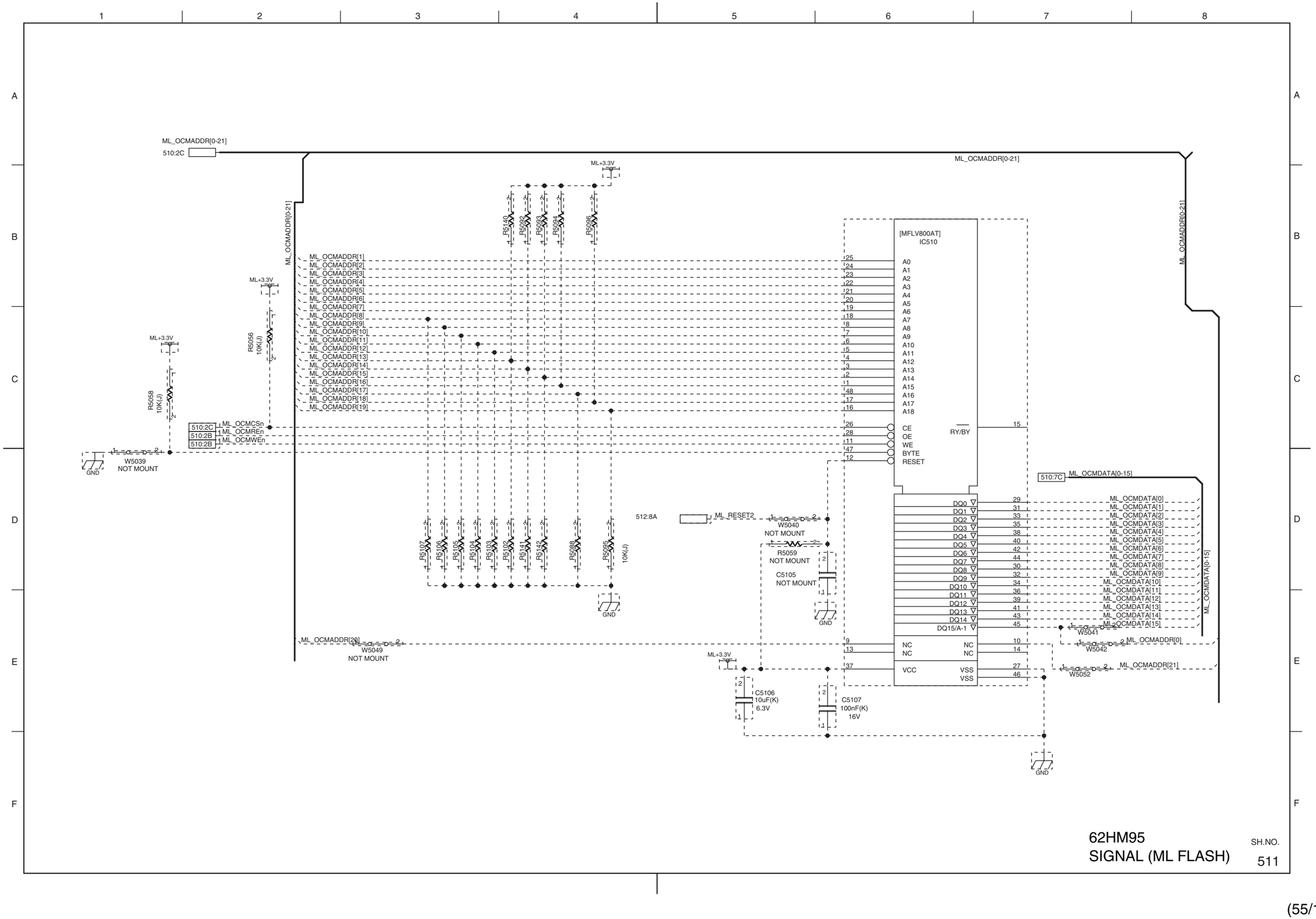
62HM95
SIGNAL (ML DDR TERMINATION)

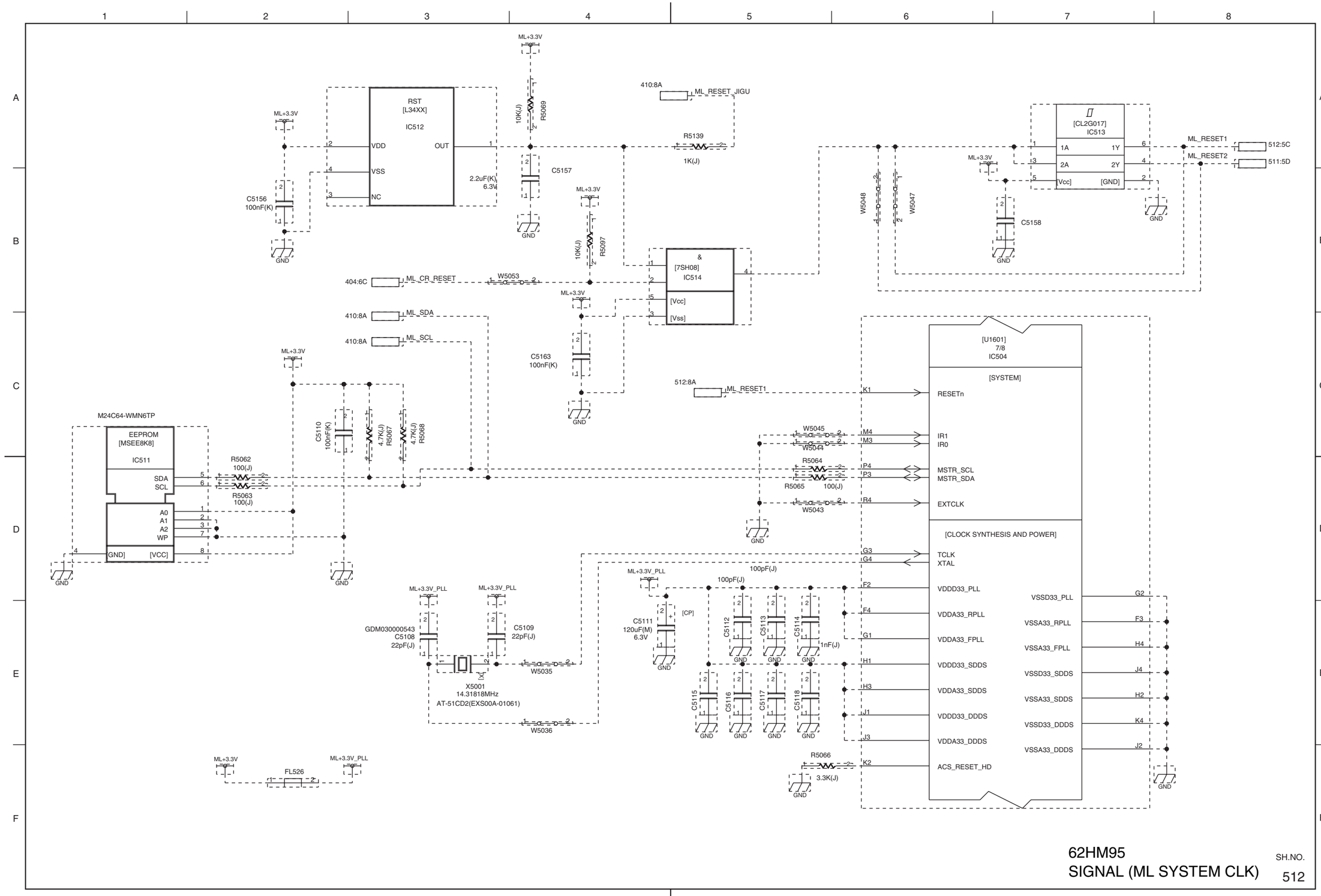
SH.NO. 509

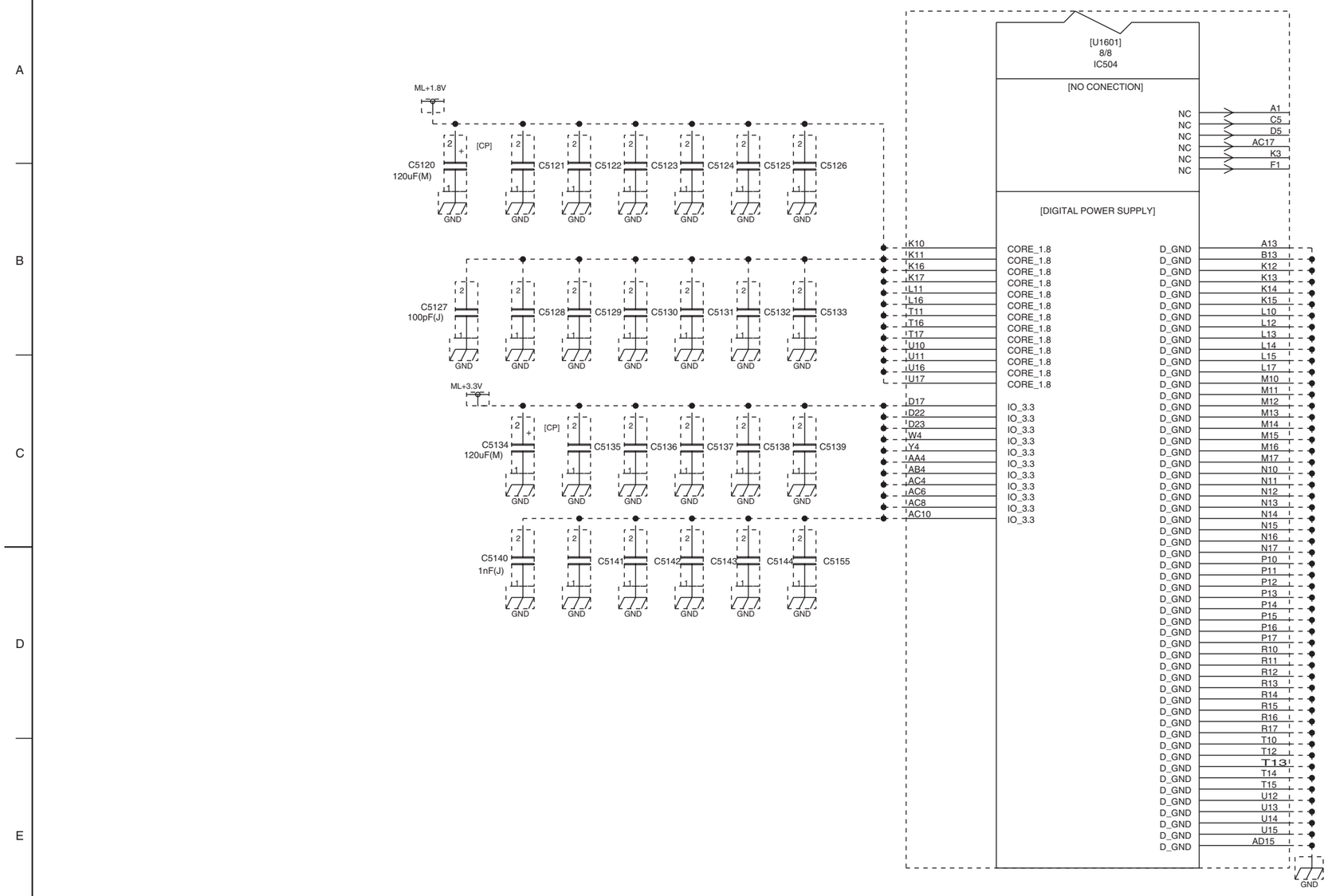


62HM95
SIGNAL (ML OCM PORT)

SH.NO.
510

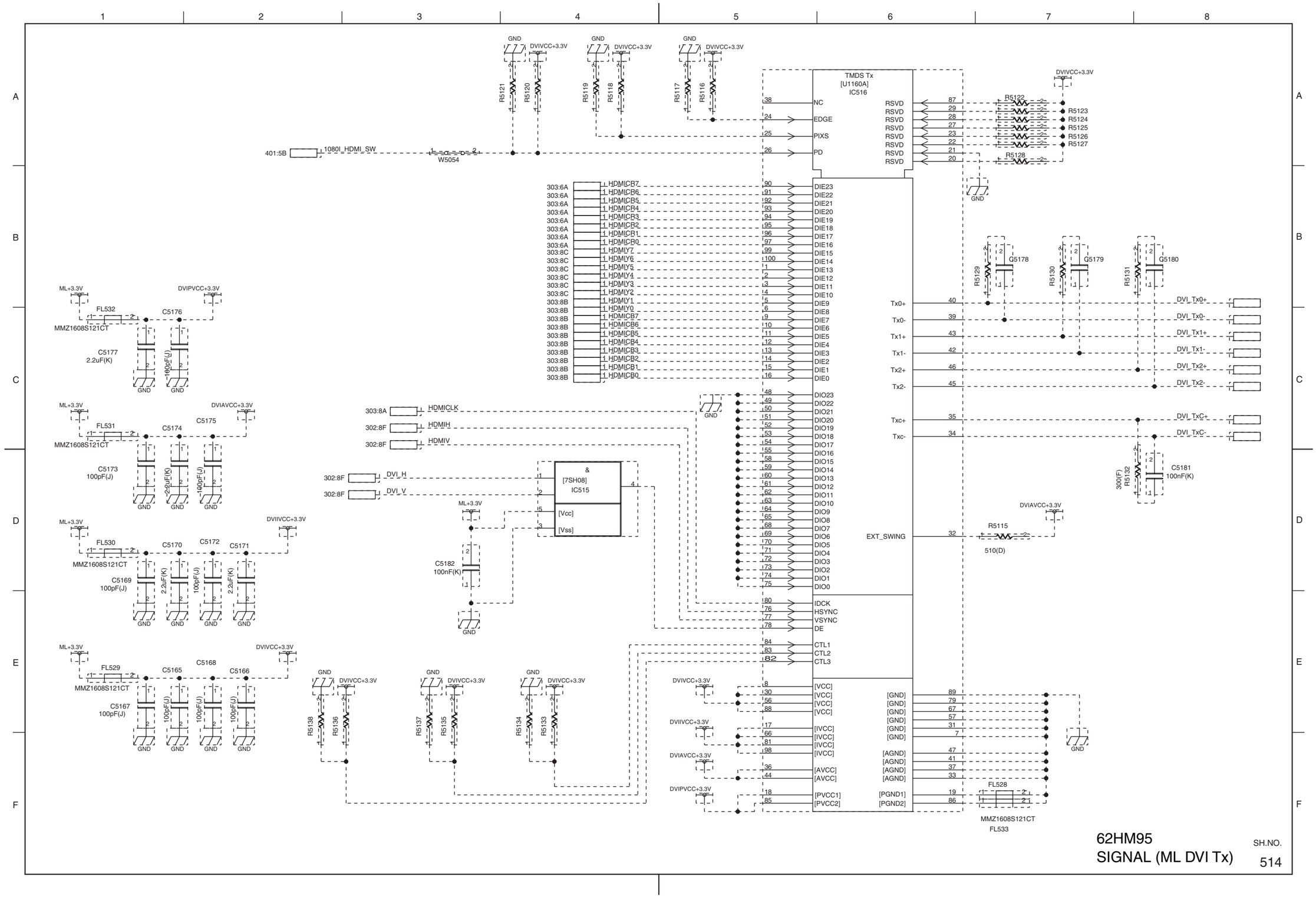

ML_OCMADDR[0-21]
510:2C
ML+3.3V
[MFLV800AT]
IC510
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
CE
OE
WE
BYTE
RESET
RY/BY
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15/A-1
NC
VCC
VSS
R5140
R5092
R5093
R5094
R5096
R5107
R5106
R5105
R5104
R5103
R5102
R5141
R5142
R5088
R5095
10K(J)
R5056
R5058
ML_OCMCSn
ML_OCMREn
ML_OCMWEn
510:2B
W5039
NOT MOUNT
GND
512:8A
ML_RESET2
W5040
R5059
C5105
C5106
10uF(K)
6.3V
C5107
100nF(K)
16V
ML_OCMADDR[20]
W5049
510:7C
ML_OCMDATA[0-15]
W5041
W5042
W5052
ML_OCMADDR[0]
ML_OCMADDR[21]
62HM95
SIGNAL (ML FLASH)
SH.NO.
511

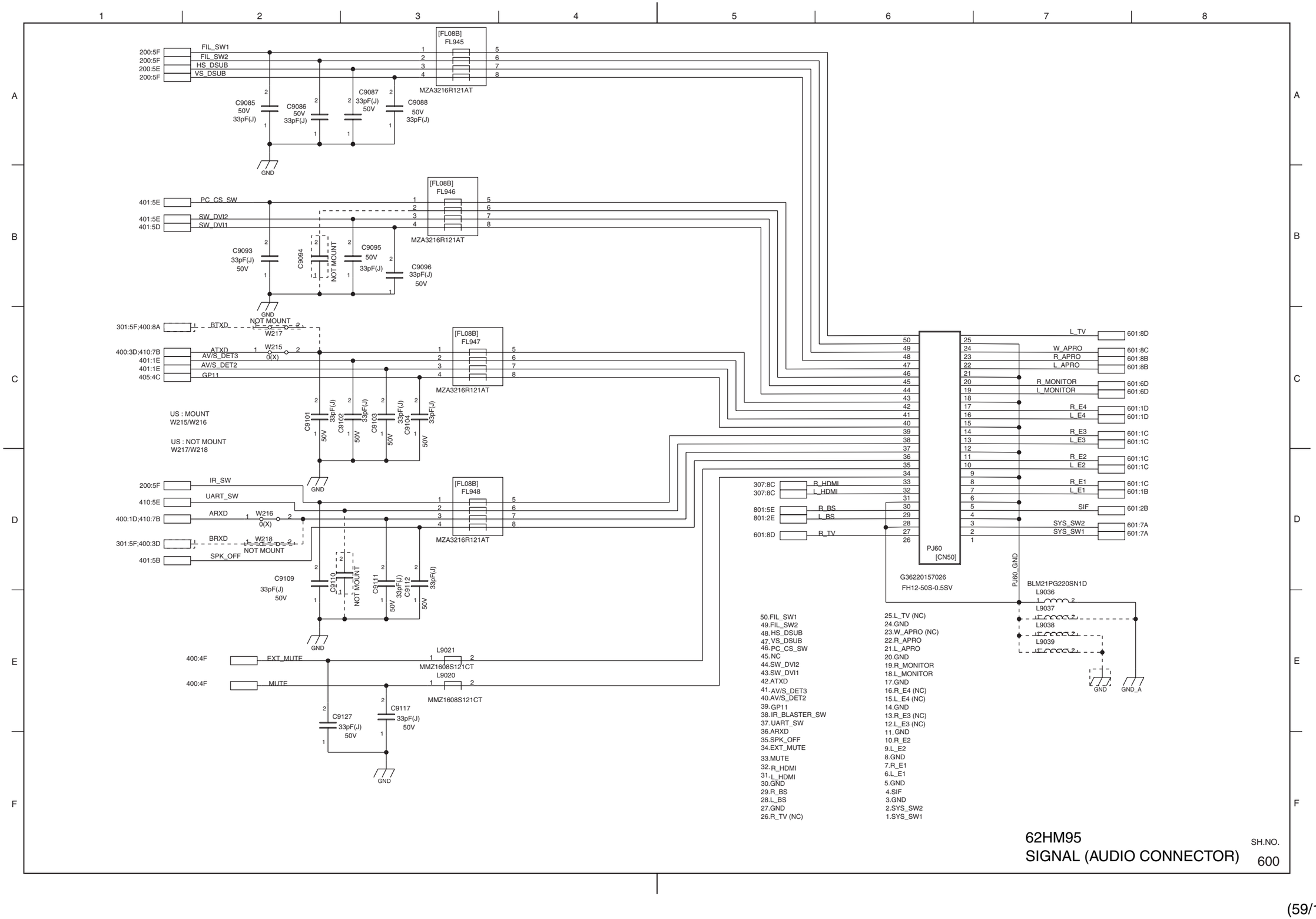

RST
[L34XX]
IC512
VDD
VSS
NC
OUT
ML+3.3V
C5156
100nF(K)
C5157
2.2uF(K)
6.3V
10K(J)
R5069
410:8A
ML_RESET_JIGU
R5139
1K(J)
GND
[CL2G017]
IC513
1A
2A
[Vcc]
1Y
2Y
[GND]
ML_RESET1
ML_RESET2
512:5C
511:5D
C5158
W5048
W5047
10K(J)
R5097
&
[7SH08]
IC514
404:6C
ML_CR_RESET
W5053
410:8A
ML_SDA
410:8A
ML_SCL
C5163
100nF(K)
[Vss]
512:8A
ML_RESET1
[U1601]
7/8
IC504
[SYSTEM]
RESETn
IR1
IR0
MSTR_SCL
MSTR_SDA
EXTCLK
[CLOCK SYNTHESIS AND POWER]
TCLK
XTAL
VDDD33_PLL
VDDA33_RPLL
VDDA33_FPLL
VDDD33_SDDS
VDDA33_SDDS
VDDD33_DDDS
VDDA33_DDDS
ACS_RESET_HD
VSSD33_PLL
VSSA33_RPLL
VSSA33_FPLL
VSSD33_SDDS
VSSA33_SDDS
VSSD33_DDDS
VSSA33_DDDS
W5045
W5044
R5064
R5065
100(J)
W5043
R4
M24C64-WMN6TP
EEPROM
[MSEE8K8]
IC511
SDA
SCL
A0
A1
A2
WP
[GND]
[VCC]
R5062
100(J)
R5063
100(J)
C5110
100nF(K)
4.7K(J)
R5067
4.7K(J)
R5068
ML+3.3V_PLL
GDM030000543
C5108
22pF(J)
C5109
22pF(J)
X5001
14.31818MHz
AT-51CD2(EXS00A-01061)
W5035
W5036
FL526
C5111
120uF(M)
6.3V
[CP]
100pF(J)
C5112
C5113
C5114
1nF(J)
C5115
C5116
C5117
C5118
R5066
3.3K(J)
62HM95
SIGNAL (ML SYSTEM CLK)
SH.NO.
512

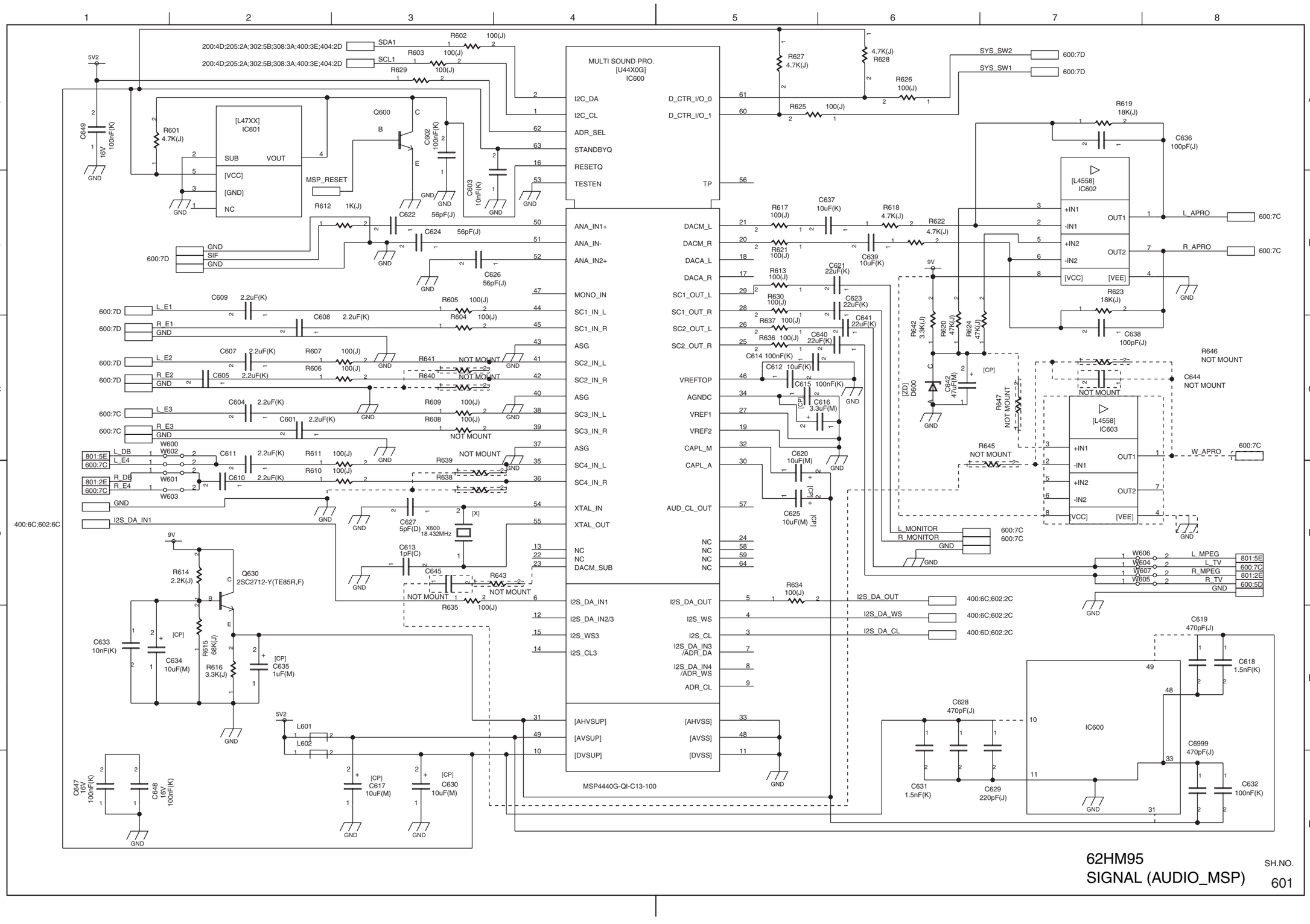


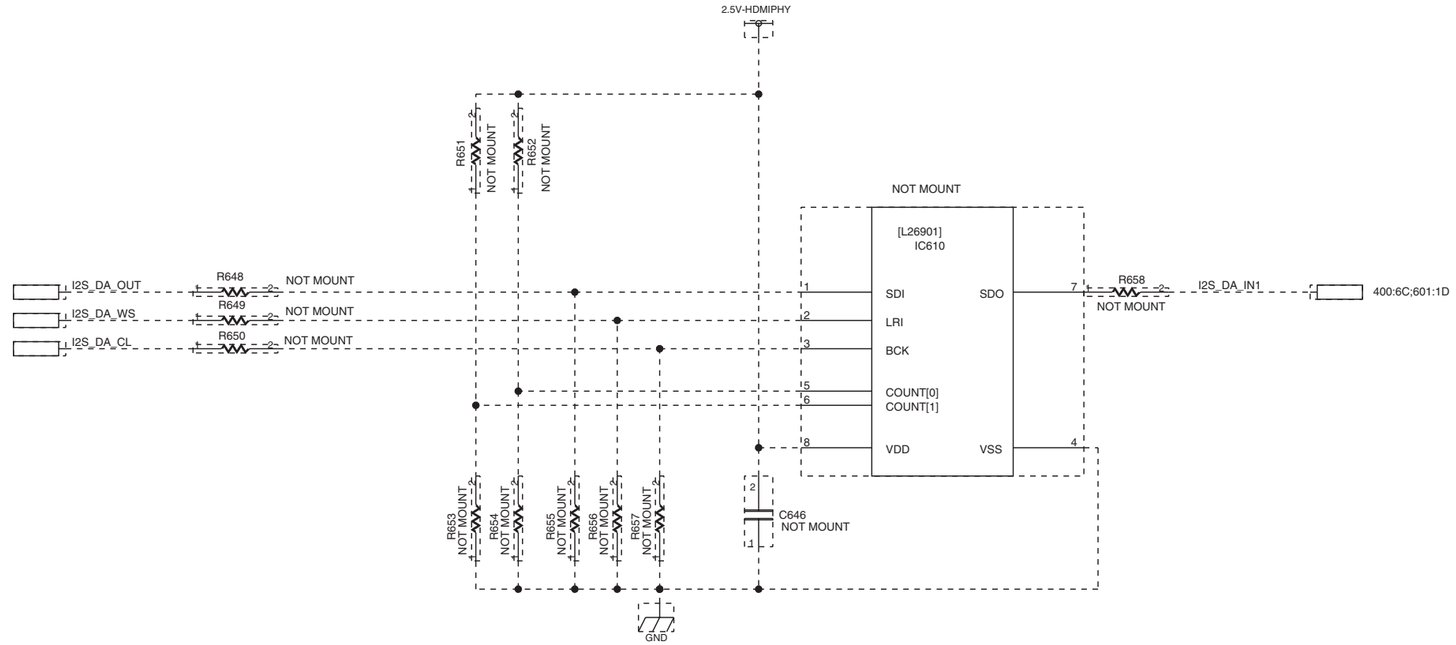
62HM95
SIGNAL (ML POWER & GND)

SH.NO.
513


TMDS Tx
[U1160A]
IC516
401:5B
1080I_HDMI_SW
W5054
R5121
R5120
R5119
R5118
R5117
R5116
GND
DVIVCC+3.3V
NC
EDGE
PIXS
PD
RSVD
R5122
R5123
R5124
R5125
R5126
R5127
R5128
303:6A HDMICB7
303:6A HDMICB6
303:6A HDMICB5
303:6A HDMICB4
303:6A HDMICB3
303:6A HDMICB2
303:6A HDMICB1
303:6A HDMICB0
303:8C HDMIY7
303:8C HDMIY6
303:8C HDMIY5
303:8C HDMIY4
303:8C HDMIY3
303:8C HDMIY2
303:8B HDMIY1
303:8B HDMIY0
303:8B HDMICB7
303:8B HDMICB6
303:8B HDMICB5
303:8B HDMICB4
303:8B HDMICB3
303:8B HDMICB2
303:8B HDMICB1
303:8B HDMICB0
DIE23
DIE22
DIE21
DIE20
DIE19
DIE18
DIE17
DIE16
DIE15
DIE14
DIE13
DIE12
DIE11
DIE10
DIE9
DIE8
DIE7
DIE6
DIE5
DIE4
DIE3
DIE2
DIE1
DIE0
303:8A HDMICLK
302:8F HDMIH
302:8F HDMIV
302:8F DVI_H
302:8F DVI_V
[7SH08]
IC515
[Vcc]
[Vss]
C5182
100nF(K)
DIO23
DIO22
DIO21
DIO20
DIO19
DIO18
DIO17
DIO16
DIO15
DIO14
DIO13
DIO12
DIO11
DIO10
DIO9
DIO8
DIO7
DIO6
DIO5
DIO4
DIO3
DIO2
DIO1
DIO0
IDCK
HSYNC
VSYNC
DE
CTL1
CTL2
CTL3
EXT_SWING
R5115
510(D)
[VCC]
[IVCC]
[AVCC]
[PVCC1]
[PVCC2]
[GND]
[AGND]
[PGND1]
[PGND2]
FL528
MMZ1608S121CT
FL533
Tx0+
Tx0-
Tx1+
Tx1-
Tx2+
Tx2-
Txc+
Txc-
DVI_Tx0+
DVI_Tx0-
DVI_Tx1+
DVI_Tx1-
DVI_Tx2+
DVI_Tx2-
DVI_TxC+
DVI_TxC-
R5129
R5130
R5131
G5178
G5179
G5180
300(F)
R5132
C5181
100nF(K)
ML+3.3V
DVIPVCC+3.3V
FL532
C5176
C5177
2.2uF(K)
160pF(J)
DVIAVCC+3.3V
FL531
C5174
C5175
C5173
100pF(J)
2.2uF(K)
DVIIVCC+3.3V
FL530
C5170
C5172
C5171
C5169
100pF(J)
DVIVCC+3.3V
FL529
C5165
C5168
C5166
C5167
100pF(J)
R5138
R5136
R5137
R5135
R5134
R5133
62HM95
SIGNAL (ML DVI Tx)
SH.NO.
514

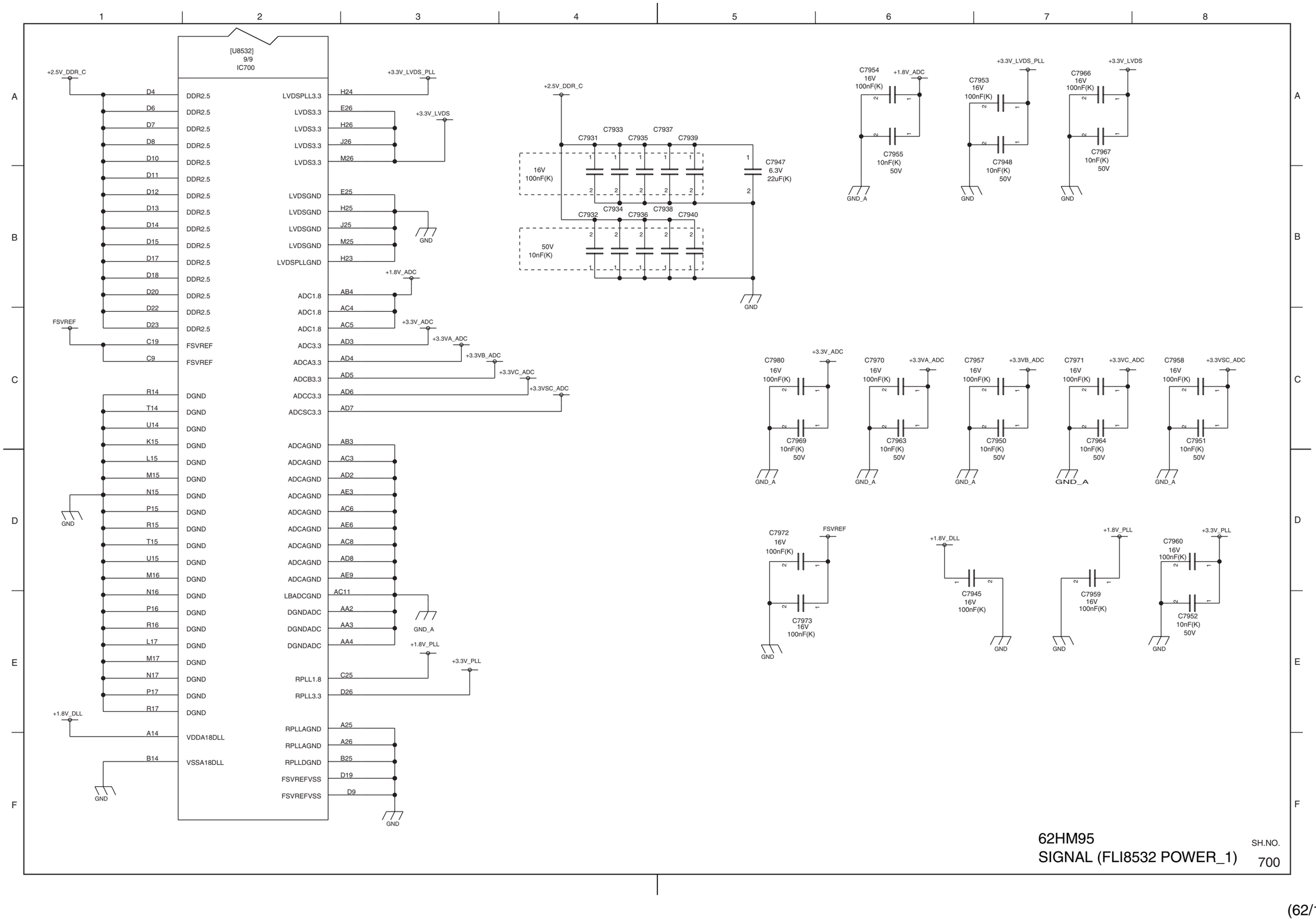

200:5F FIL_SW1
200:5F FIL_SW2
200:5E HS_DSUB
200:5F VS_DSUB
[FL08B] FL945
MZA3216R121AT
C9085 50V 33pF(J)
C9086 50V 33pF(J)
C9087 33pF(J) 50V
C9088 50V 33pF(J)
GND
401:5E PC_CS_SW
401:5E SW_DVI2
401:5D SW_DVI1
[FL08B] FL946
MZA3216R121AT
C9093 33pF(J) 50V
C9094
NOT MOUNT
C9095 50V 33pF(J)
C9096 33pF(J) 50V
GND
301:5F;400:8A BTXD
NOT MOUNT
W217
400:3D;410:7B ATXD
401:1E AV/S_DET3
401:1E AV/S_DET2
405:4C GP11
W215 0(X)
[FL08B] FL947
MZA3216R121AT
C9101 33pF(J) 50V
C9102 33pF(J) 50V
C9103 33pF(J) 50V
C9104 33pF(J) 50V
GND
US : MOUNT
W215/W216
US : NOT MOUNT
W217/W218
200:5F IR_SW
410:5E UART_SW
400:1D;410:7B ARXD
W216 0(X)
301:5F;400:3D BRXD
W218
NOT MOUNT
401:5B SPK_OFF
[FL08B] FL948
MZA3216R121AT
C9109 33pF(J) 50V
C9110
NOT MOUNT
C9111 33pF(J) 50V
C9112 33pF(J) 50V
GND
400:4F EXT_MUTE
L9021
MMZ1608S121CT
400:4F MUTE
L9020
MMZ1608S121CT
C9127 33pF(J) 50V
C9117 33pF(J) 50V
GND
307:8C R_HDMI
307:8C L_HDMI
801:5E R_BS
801:2E L_BS
601:8D R_TV
PJ60 [CN50]
G36220157026
FH12-50S-0.5SV
50.FIL_SW1
49.FIL_SW2
48.HS_DSUB
47.VS_DSUB
46.PC_CS_SW
45.NC
44.SW_DVI2
43.SW_DVI1
42.ATXD
41.AV/S_DET3
40.AV/S_DET2
39.GP11
38.IR_BLASTER_SW
37.UART_SW
36.ARXD
35.SPK_OFF
34.EXT_MUTE
33.MUTE
32.R_HDMI
31.L_HDMI
30.GND
29.R_BS
28.L_BS
27.GND
26.R_TV (NC)
25.L_TV (NC)
24.GND
23.W_APRO (NC)
22.R_APRO
21.L_APRO
20.GND
19.R_MONITOR
18.L_MONITOR
17.GND
16.R_E4 (NC)
15.L_E4 (NC)
14.GND
13.R_E3 (NC)
12.L_E3 (NC)
11.GND
10.R_E2
9.L_E2
8.GND
7.R_E1
6.L_E1
5.GND
4.SIF
3.GND
2.SYS_SW2
1.SYS_SW1
L_TV 601:8D
W_APRO 601:8C
R_APRO 601:8B
L_APRO 601:8B
R_MONITOR 601:6D
L_MONITOR 601:6D
R_E4 601:1D
L_E4 601:1D
R_E3 601:1C
L_E3 601:1C
R_E2 601:1C
L_E2 601:1C
R_E1 601:1C
L_E1 601:1B
SIF 601:2B
SYS_SW2 601:7A
SYS_SW1 601:7A
PJ60_GND
BLM21PG220SN1D
L9036
L9037
L9038
L9039
GND
GND_A
62HM95
SIGNAL (AUDIO CONNECTOR)
SH.NO.
600

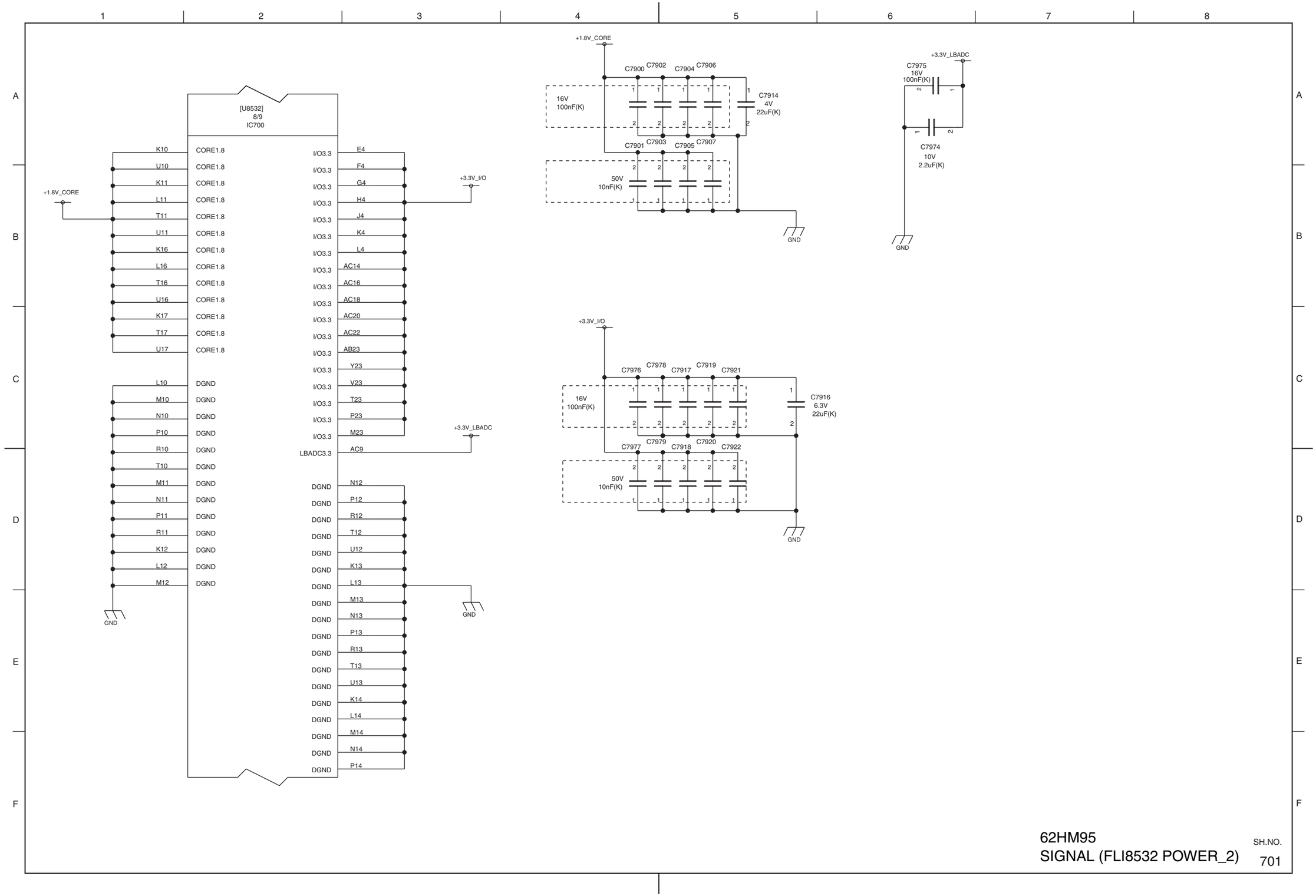

MULTI SOUND PRO.
[U44X0G]
IC600
I2C_DA
I2C_CL
ADR_SEL
STANDBYQ
RESETQ
TESTEN
TP
D_CTR_I/O_0
D_CTR_I/O_1
ANA_IN1+
ANA_IN-
ANA_IN2+
MONO_IN
SC1_IN_L
SC1_IN_R
ASG
SC2_IN_L
SC2_IN_R
ASG
SC3_IN_L
SC3_IN_R
ASG
SC4_IN_L
SC4_IN_R
XTAL_IN
XTAL_OUT
NC
NC
DACM_SUB
DACM_L
DACM_R
DACA_L
DACA_R
SC1_OUT_L
SC1_OUT_R
SC2_OUT_L
SC2_OUT_R
VREFTOP
AGNDC
VREF1
VREF2
CAPL_M
CAPL_A
AUD_CL_OUT
NC
NC
NC
NC
I2S_DA_IN1
I2S_DA_IN2/3
I2S_WS3
I2S_CL3
I2S_DA_OUT
I2S_WS
I2S_CL
I2S_DA_IN3 /ADR_DA
I2S_DA_IN4 /ADR_WS
ADR_CL
[AHVSUP]
[AVSUP]
[DVSUP]
[AHVSS]
[AVSS]
[DVSS]
MSP4440G-QI-C13-100
SDA1
SCL1
200:4D;205:2A;302:5B;308:3A;400:3E;404:2D
R602 100(J)
R603 100(J)
R629 100(J)
5V2
C649 100nF(K) 16V
R601 4.7K(J)
[L47XX]
IC601
SUB
VOUT
[VCC]
[GND]
NC
Q600
C602 100nF(K)
C603 10nF(K)
MSP_RESET
R612 1K(J)
C622 56pF(J)
C624 56pF(J)
C626 56pF(J)
600:7D
GND
SIF
C609 2.2uF(K)
C608 2.2uF(K)
C607 2.2uF(K)
C605 2.2uF(K)
C604 2.2uF(K)
C601 2.2uF(K)
C611 2.2uF(K)
C610 2.2uF(K)
R605 100(J)
R604 100(J)
R607 100(J)
R606 100(J)
R609 100(J)
R608 100(J)
R611 100(J)
R610 100(J)
R641 NOT MOUNT
R640 NOT MOUNT
R639 NOT MOUNT
R638 NOT MOUNT
R635 100(J)
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_DB
L_E4
R_DB
R_E4
W600
W601
W602
W603
801:5E
801:2E
600:7C
I2S_DA_IN1
400:6C;602:6C
R627 4.7K(J)
R628 4.7K(J)
R626 100(J)
R625 100(J)
SYS_SW2
SYS_SW1
600:7D
R617 100(J)
R618 4.7K(J)
R622 4.7K(J)
R621 100(J)
C637 10uF(K)
C639 10uF(K)
R613 100(J)
R630 100(J)
R637 100(J)
R636 100(J)
C621 22uF(K)
C623 22uF(K)
C641 22uF(K)
C640 22uF(K)
C614 100nF(K)
C612 10uF(K)
C615 100nF(K)
C616 3.3uF(M)
C620 10uF(M)
C625 10uF(M)
R634 100(J)
I2S_DA_OUT
I2S_WS
I2S_DA_CL
400:6C;602:2C
400:6C;602:2C
400:6D;602:2C
9V
R619 18K(J)
C636 100pF(J)
[L4558]
IC602
+IN1
-IN1
+IN2
-IN2
OUT1
OUT2
[VCC]
[VEE]
L_APRO
R_APRO
600:7C
R623 18K(J)
C638 100pF(J)
R642 3.3K(J)
R620 47K(J)
R624 47K(J)
[ZD]
D600
C642 47uF(M)
[CP]
R646 NOT MOUNT
C644 NOT MOUNT
R647 NOT MOUNT
R645 NOT MOUNT
[L4558]
IC603
W_APRO
L_MONITOR
R_MONITOR
W606
W604
W607
W605
L_MPEG
L_TV
R_MPEG
R_TV
801:5E
600:7C
801:2E
600:5D
R614 2.2K(J)
Q630
2SC2712-Y(TE85R,F)
C633 10nF(K)
C634 10uF(M)
R615 68K(J)
R616 3.3K(J)
C635 1uF(M)
L601
L602
C647 16V 100nF(K)
C648 16V 100nF(K)
C617 10uF(M)
C630 10uF(M)
C627 5pF(D)
X600 18.432MHz
[X]
C613 1pF(C)
C645 NOT MOUNT
R643 NOT MOUNT
C619 470pF(J)
C618 1.5nF(K)
C628 470pF(J)
C631 1.5nF(K)
C629 220pF(J)
C6999 470pF(J)
C632 100nF(K)
IC600
62HM95
SIGNAL (AUDIO_MSP)
SH.NO.
601



62HM95
SIGNAL (AUDIO_DELAY)

SH.NO.
602


[U8532]
9/9
IC700
+2.5V_DDR_C
D4
D6
D7
D8
D10
D11
D12
D13
D14
D15
D17
D18
D20
D22
D23
DDR2.5
FSVREF
C19
C9
R14
T14
U14
K15
L15
M15
N15
P15
R15
T15
U15
M16
N16
P16
R16
L17
M17
N17
P17
R17
DGND
A14
VDDA18DLL
B14
VSSA18DLL
GND
+1.8V_DLL
+3.3V_LVDS_PLL
LVDSPLL3.3
H24
+3.3V_LVDS
LVDS3.3
E26
H26
J26
M26
LVDSGND
E25
H25
J25
M25
LVDSPLLGND
H23
+1.8V_ADC
ADC1.8
AB4
AC4
+3.3V_ADC
AC5
+3.3VA_ADC
ADC3.3
AD3
+3.3VB_ADC
ADCA3.3
AD4
+3.3VC_ADC
ADCB3.3
AD5
+3.3VSC_ADC
ADCC3.3
AD6
ADCSC3.3
AD7
ADCAGND
AB3
AC3
AD2
AE3
AC6
AE6
AC8
AD8
AE9
LBADCGND
AC11
GND_A
DGNDADC
AA2
AA3
AA4
+1.8V_PLL
+3.3V_PLL
RPLL1.8
C25
RPLL3.3
D26
RPLLAGND
A25
A26
RPLLDGND
B25
FSVREFVSS
D19
D9
C7931
C7933
C7935
C7937
C7939
C7932
C7934
C7936
C7938
C7940
16V
100nF(K)
50V
10nF(K)
C7947
6.3V
22uF(K)
C7954
16V
100nF(K)
C7955
10nF(K)
50V
C7953
C7948
C7966
C7967
C7980
C7969
C7970
C7963
C7957
C7950
C7971
C7964
C7958
C7951
C7972
C7973
C7945
C7959
C7960
C7952
62HM95
SIGNAL (FLI8532 POWER_1)
SH.NO.
700

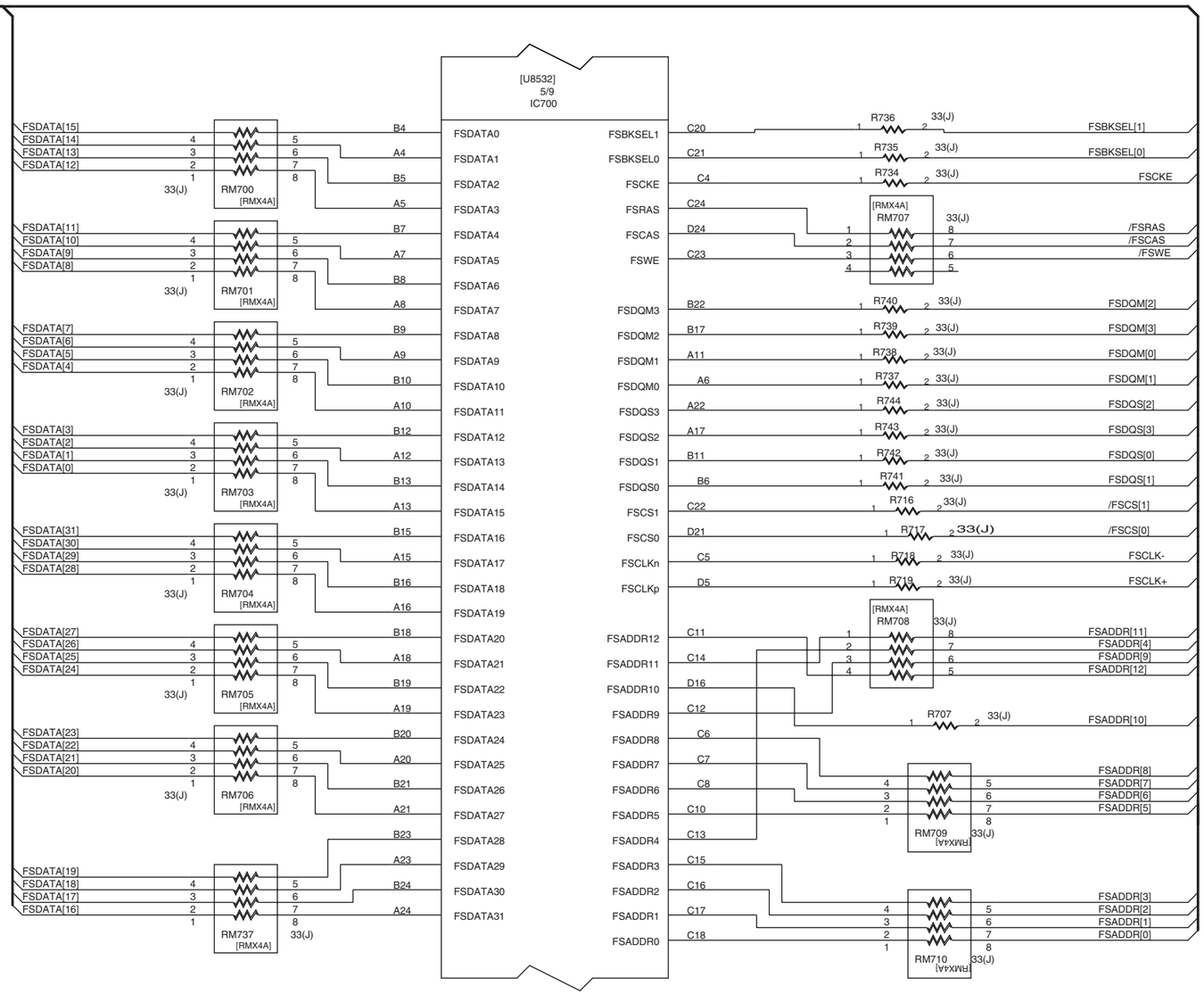


62HM95
SIGNAL (FLI8532 POWER_2)

SH.NO.
701

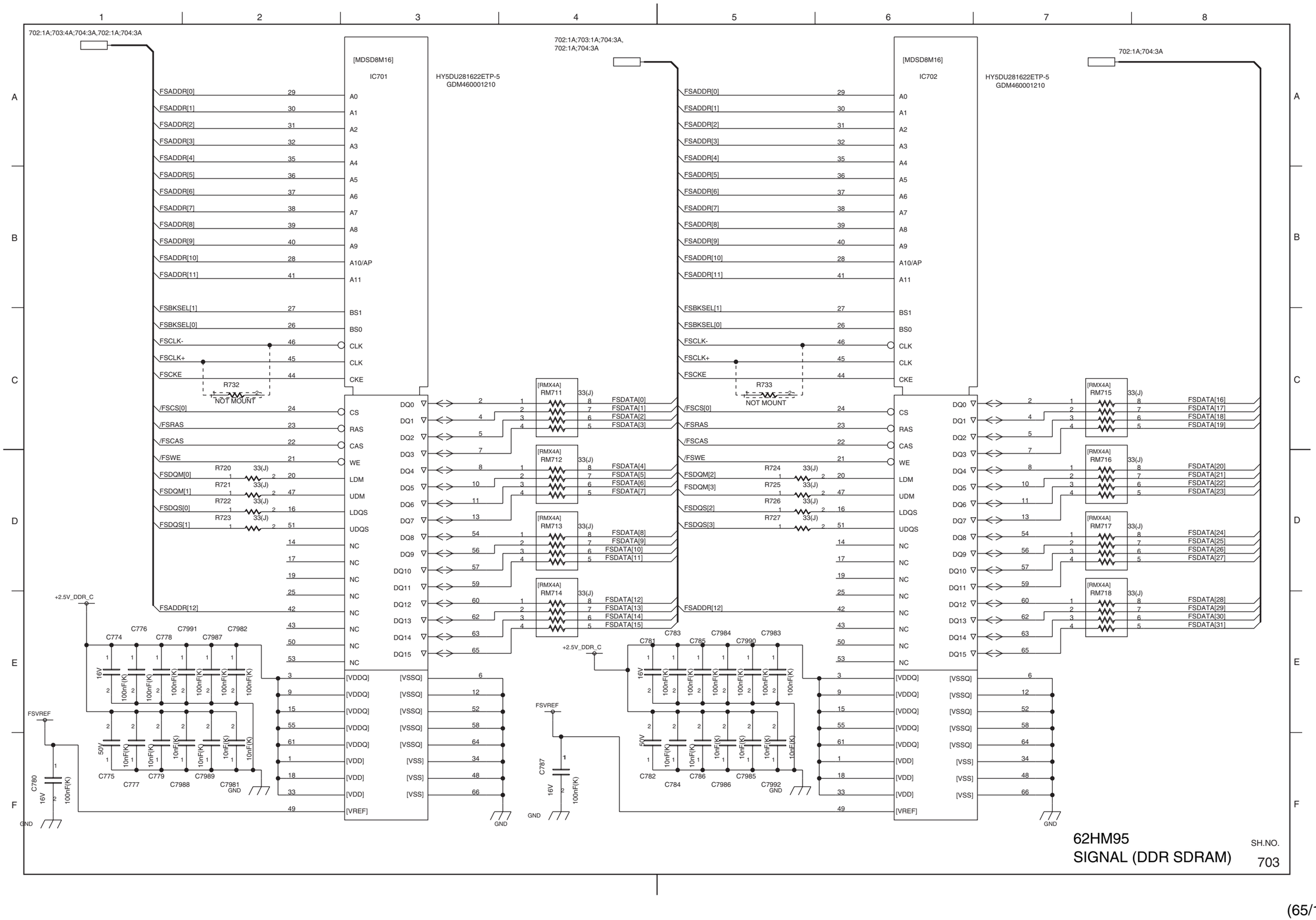
703:4A;704:3A,703:7A;704:3A,
703:1A;703:4A;704:3A,704:3A,
703:1A;704:3A

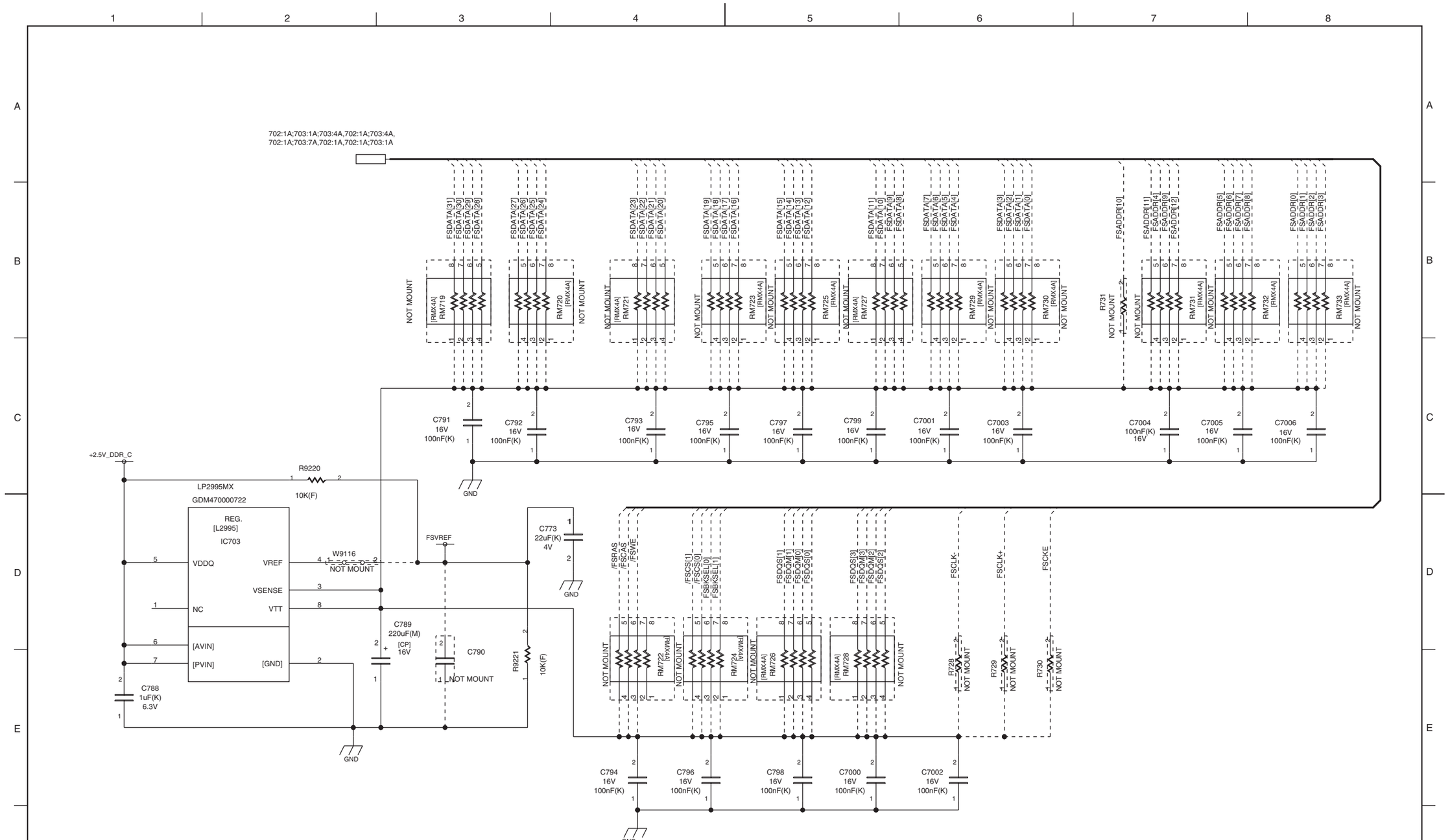
FSDATA[0],FSDATA[1],FSDATA[2],
FSDATA[3],FSDATA[4],FSDATA[5],
FSDATA[6],FSDATA[7],FSDATA[8],
FSDATA[9],FSDATA[10],FSDATA[11],
FSDATA[12],FSDATA[13],FSDATA[14],
FSDATA[15],FSDATA[16],FSDATA[17],
FSDATA[18],FSDATA[19],FSDATA[20],
FSDATA[21],FSDATA[22],FSDATA[23],
FSDATA[24],FSDATA[25],FSDATA[26],
FSDATA[27],FSDATA[28],FSDATA[29],
FSDATA[30],FSDATA[31],/FSCAS,
/FSCS[0],/FSCS[1],/FSRAS,/FSWE,
FSADDR[0],FSADDR[1],FSADDR[2],
FSADDR[3],FSADDR[4],FSADDR[5],
FSADDR[6],FSADDR[7],FSADDR[8],
FSADDR[9],FSADDR[10],FSADDR[11],
FSADDR[12],FSBKSEL[0],FSBKSEL[1],
FSCKE,FSCLK+,FSCLK-,
FSDQM[0],FSDQM[1],FSDQM[2],FSDQM[3],
FSDQS[0],FSDQS[1],FSDQS[2],FSDQS[3]



62HM95
SIGNAL (FLI8532 DDR I/F)

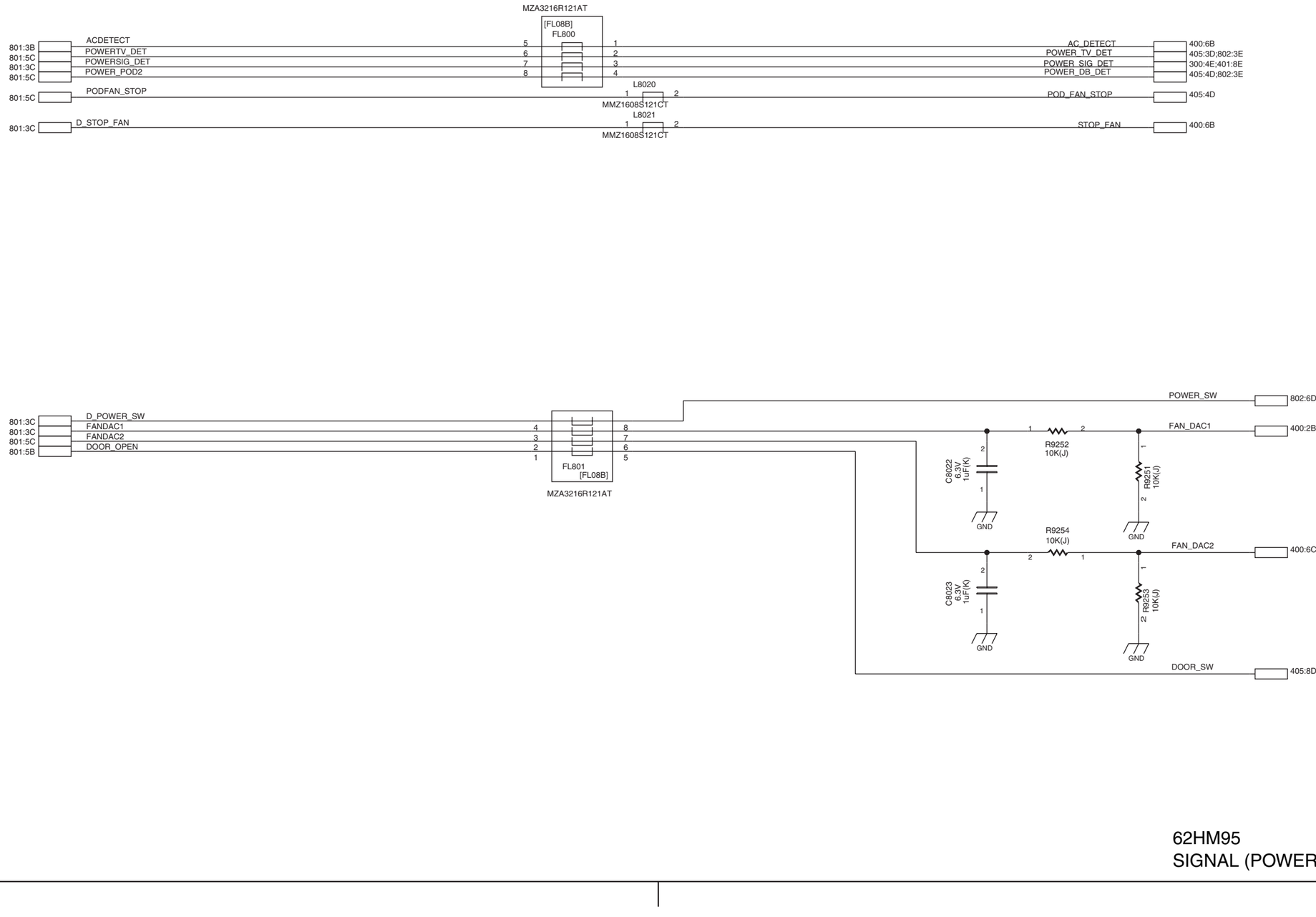
SH.NO.
702


1
2
3
4
5
6
7
8
A
B
C
D
E
F
702:1A;703:4A;704:3A,702:1A;704:3A
[MDSD8M16]
IC701
HY5DU281622ETP-5
GDM460001210
FSADDR[0]
FSADDR[1]
FSADDR[2]
FSADDR[3]
FSADDR[4]
FSADDR[5]
FSADDR[6]
FSADDR[7]
FSADDR[8]
FSADDR[9]
FSADDR[10]
FSADDR[11]
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
FSBKSEL[1]
FSBKSEL[0]
BS1
BS0
FSCLK-
FSCLK+
CLK
CLK
FSCKE
CKE
R732
NOT MOUNT
/FSCS[0]
/FSRAS
/FSCAS
/FSWE
CS
RAS
CAS
WE
R720 33(J)
R721 33(J)
R722 33(J)
R723 33(J)
FSDQM[0]
FSDQM[1]
FSDQS[0]
FSDQS[1]
LDM
UDM
LDQS
UDQS
NC
[VDDQ]
[VSSQ]
[VDD]
[VSS]
[VREF]
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
[RMX4A]
RM711
RM712
RM713
RM714
33(J)
FSDATA[0]
FSDATA[1]
FSDATA[2]
FSDATA[3]
FSDATA[4]
FSDATA[5]
FSDATA[6]
FSDATA[7]
FSDATA[8]
FSDATA[9]
FSDATA[10]
FSDATA[11]
FSDATA[12]
FSDATA[13]
FSDATA[14]
FSDATA[15]
+2.5V_DDR_C
C774
C776
C778
C7987
C7991
C7982
C775
C777
C779
C7988
C7989
C7981
C780
C781
C783
C785
C7984
C7990
C7983
C782
C784
C786
C7985
C7992
C787
16V
50V
100nF(K)
10nF(K)
FSVREF
GND
702:1A;703:1A;704:3A,
702:1A;704:3A
IC702
R733
NOT MOUNT
R724 33(J)
R725 33(J)
R726 33(J)
R727 33(J)
FSDQM[2]
FSDQM[3]
FSDQS[2]
FSDQS[3]
RM715
RM716
RM717
RM718
FSDATA[16]
FSDATA[17]
FSDATA[18]
FSDATA[19]
FSDATA[20]
FSDATA[21]
FSDATA[22]
FSDATA[23]
FSDATA[24]
FSDATA[25]
FSDATA[26]
FSDATA[27]
FSDATA[28]
FSDATA[29]
FSDATA[30]
FSDATA[31]
62HM95
SIGNAL (DDR SDRAM)
SH.NO.
703



62HM95
SIGNAL (DDR TERMINATION)

SH.NO.
704



62HM95
SIGNAL (POWER I/F)

SH.NO.
800

51.MALIBU 3.3V
52.MALIBU 3.3V
53.GND
54.18V
55.GND
56.9V1
57.GND
58.ACDETECT
59.FANDAC1
60.STOP_FAN
61.POWERSIG_DET
62.POWER_SW
63.GND
64.GND
65.VCK
66.VD
67.D_SEINEY1
68.GND
69.D_SEINEY3
70.GND
71.D_SEINEY5
72.GND
73.D_SEINEY7
74.GND
75.D_SEINEC1
76.GND
77.D_SEINEC3
78.GND
79.D_SEINEC5
80.GND
81.D_SEINEC7
82.GND
83.NC(Debug_TXD)
84.GND
85.TXD
86.SDA_DIG
87.SCL_DIG
88.USB Boot
89.DB_RST
90.GND
91.GND
92.GND
93.R_DB
94.GND
95.L_BS
96.GND
97.R_MPG
98.GND
99.DIGITAL_V_IN
100.V_SIG_GND

1.MALIBU 3.3V
2.GND
3.GND
4.18V
5.GND
6.5V1
7.GND
8.DOOR_OPEN
9.FANDAC2
10.PODFAN_STOP
11.POWER_POD2
12.POWER_TV
13.GND
14.GND
15.HD
16.GND
17.D_SEINEY0
18.GND
19.D_SEINEY2
20.GND
21.D_SEINEY4
22.GND
23.D_SEINEY6
24.GND
25.D_SEINEC0
26.GND
27.D_SEINEC2
28.GND
29.D_SEINEC4
30.GND
31.D_SEINEC6
32.GND
33.NC(Debug_RXD)
34.GND
35.RXD
36.GND
37.HEAD
38.GND
39.SWupgrade
40.GND
41.GND
42.GND
43.L_DB
44.GND
45.R_BS
46.GND
47.L_MPG
48.GND
49.V_BS
50.V_BS_GND

PANEL TYPE 720P : NOT MOUNT

FL501
C5007,C5009,C5010

NOT MOUNT
[FL]
FL501

ML+3.3V

C5009 NOT MOUNT
C5010 [CP] NOT MOUNT
C5007 NOT MOUNT

GND

GDM220001539
1-5175474-0
[C100B2]
PJ610

800:1B ACDETECT
800:1D FANDAC1
800:1B D_STOP_FAN
800:1B POWERSIG_DET
800:1D D_POWER_SW

DOOR_OPEN 800:1D
FANDAC2 800:1D
PODFAN_STOP 800:1B
POWER_POD2 800:1B
POWERTV_DET 800:1B

301:3F D_SEINECLK
301:3E D_SEINEVS
301:3C D_SEINEY1
301:3C D_SEINEY3
301:3C D_SEINEY5
301:3C D_SEINEY7
301:3B D_SEINEC1
301:3B D_SEINEC3
301:3B D_SEINEC5
301:3B D_SEINEC7

D_SEINEHS 301:3F
D_SEINEY0 301:3C
D_SEINEY2 301:3C
D_SEINEY4 301:3C
D_SEINEY6 301:3C
D_SEINEC0 301:3B
D_SEINEC2 301:3B
D_SEINEC4 301:3B
D_SEINEC6 301:3B

301:3F D_BRXD
409:4D SDA_DIG NOT MOUNT R311
409:4C SCL_DIG NOT MOUNT R312

D_BTXD 301:3F
D_HEAD_DB 301:3F

601:1D R_DB
600:5D L_BS
601:8D R_MPEG

L_DB 601:1C
R_BS 600:5D
L_MPEG 601:8D

200:2B DIGITAL_V_IN 33(J) R2070
200:2B V_SIG_GND

2T 1T

L8032 BLM21PG220SN1D
L8031 BLM21PG220SN1D
L8030 BLM21PG220SN1D

18V 9V 5V1

C8004 25V 100nF(K)
C8005 16V 100nF(K)
C8006 16V 100nF(K)

GND

RM314 [RMX4A]
HOST_RST 400:8B
SEINE_USB 300:4C
UPDATE 400:6B
33(J)

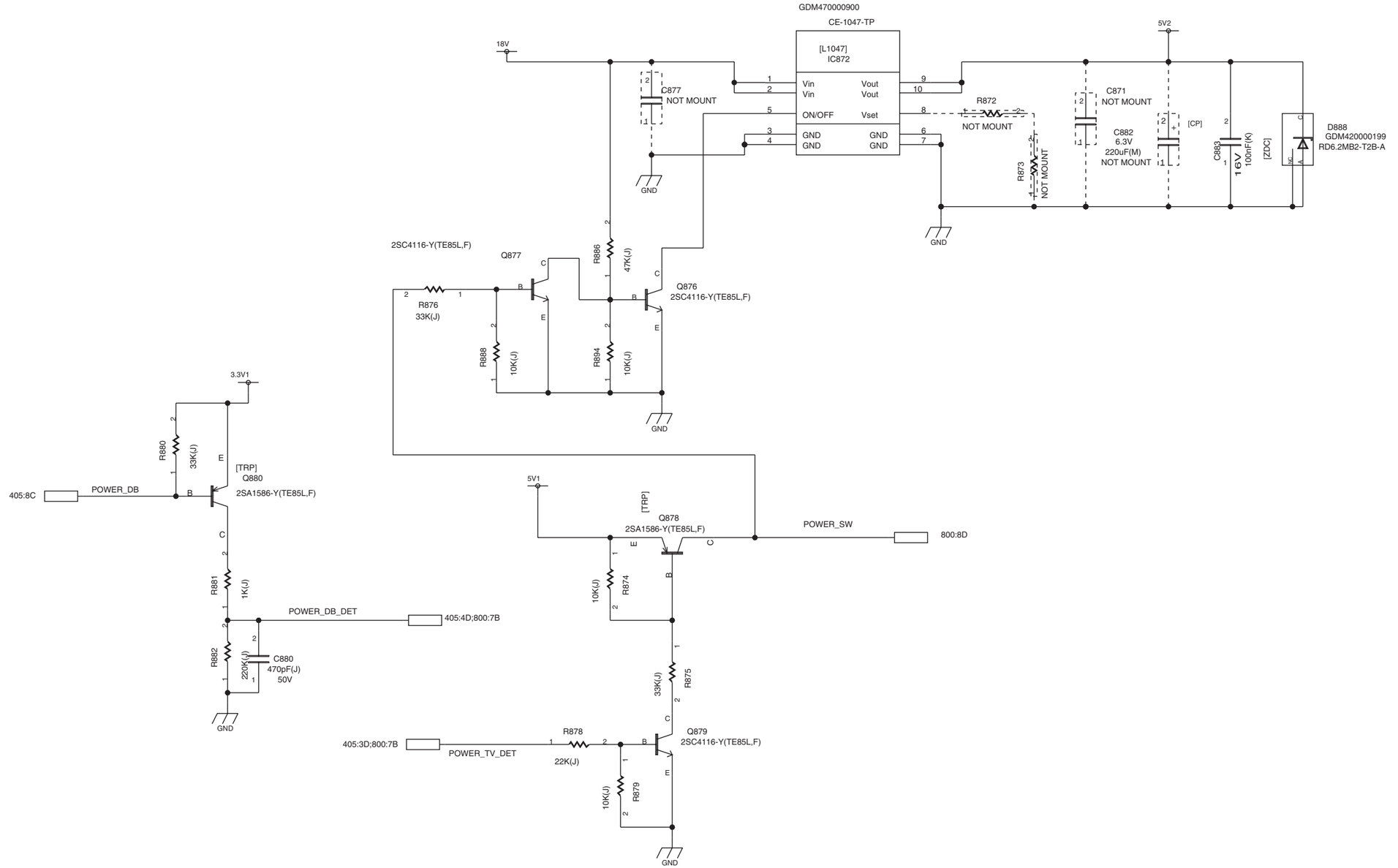
33(J) R2071
V_BS 200:2B
V_BS_GND 200:2B

W9117
0(X)

GND GND_A

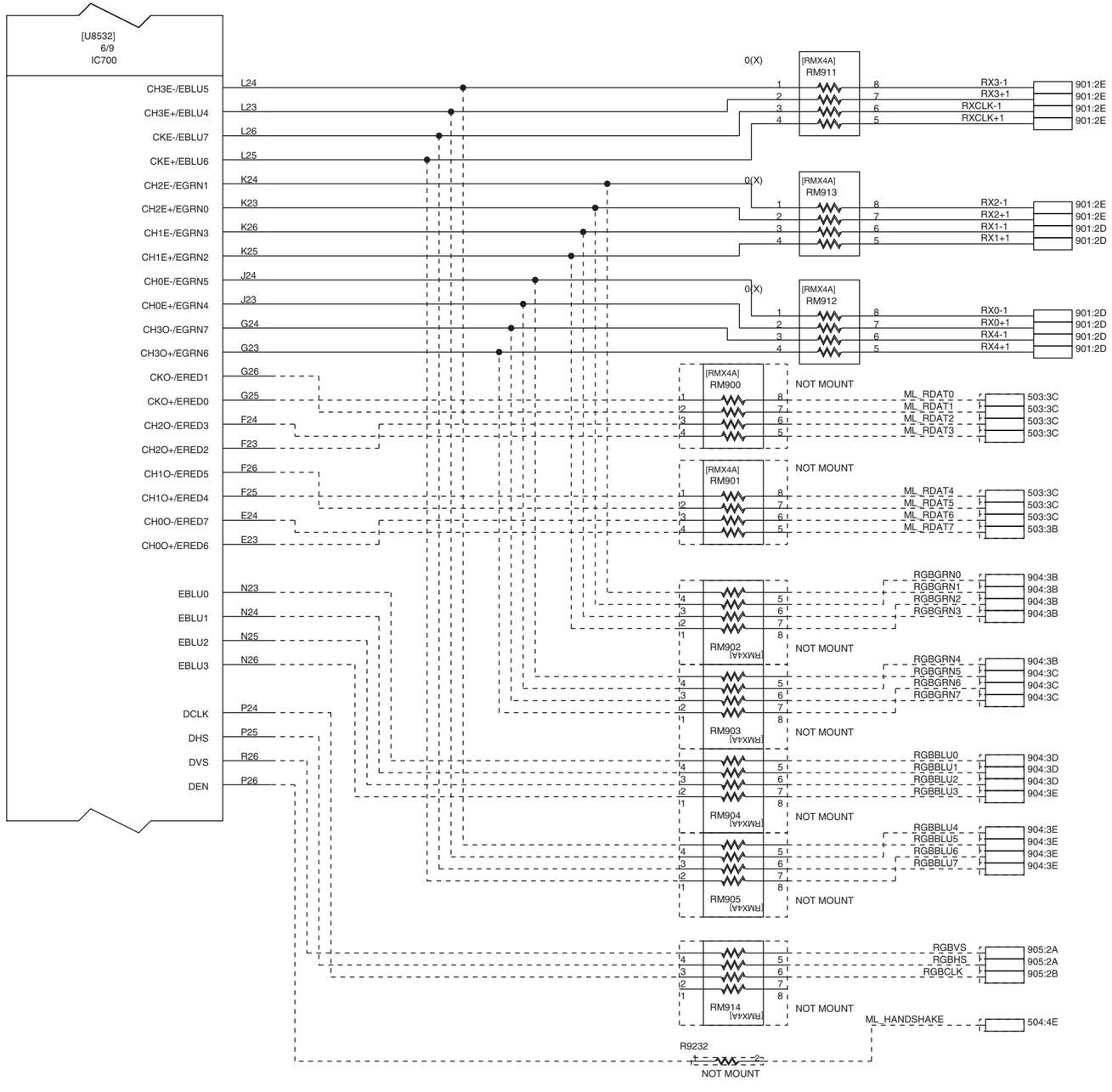
62HM95
SIGNAL (DIGITAL CONNECTOR)

SH.NO.
801



62HM95
SIGNAL (DC/DC_CONVERTER)

SH.NO.
802



PANEL TYPE 720P : MOUNT

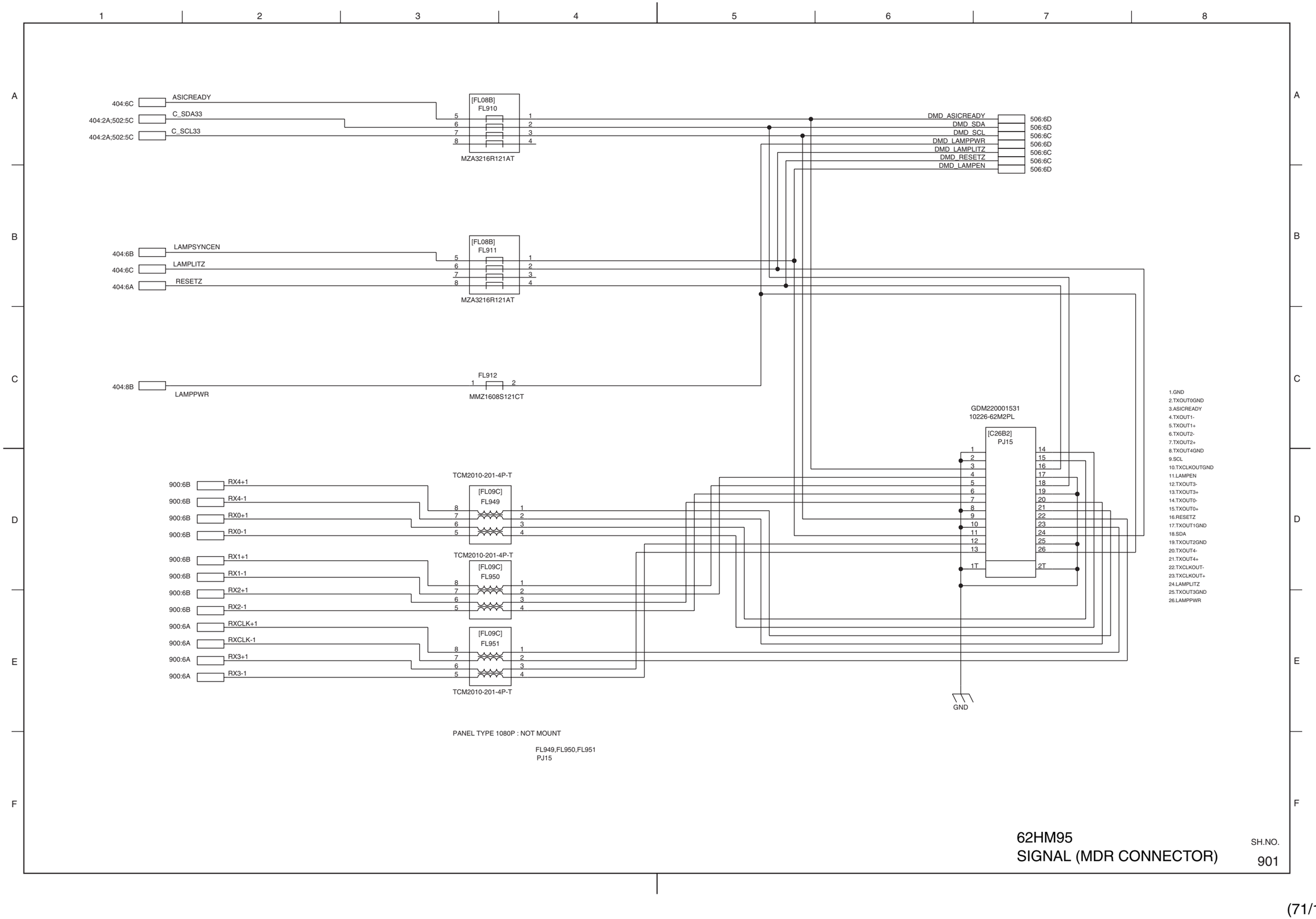
RM911 !A RM913

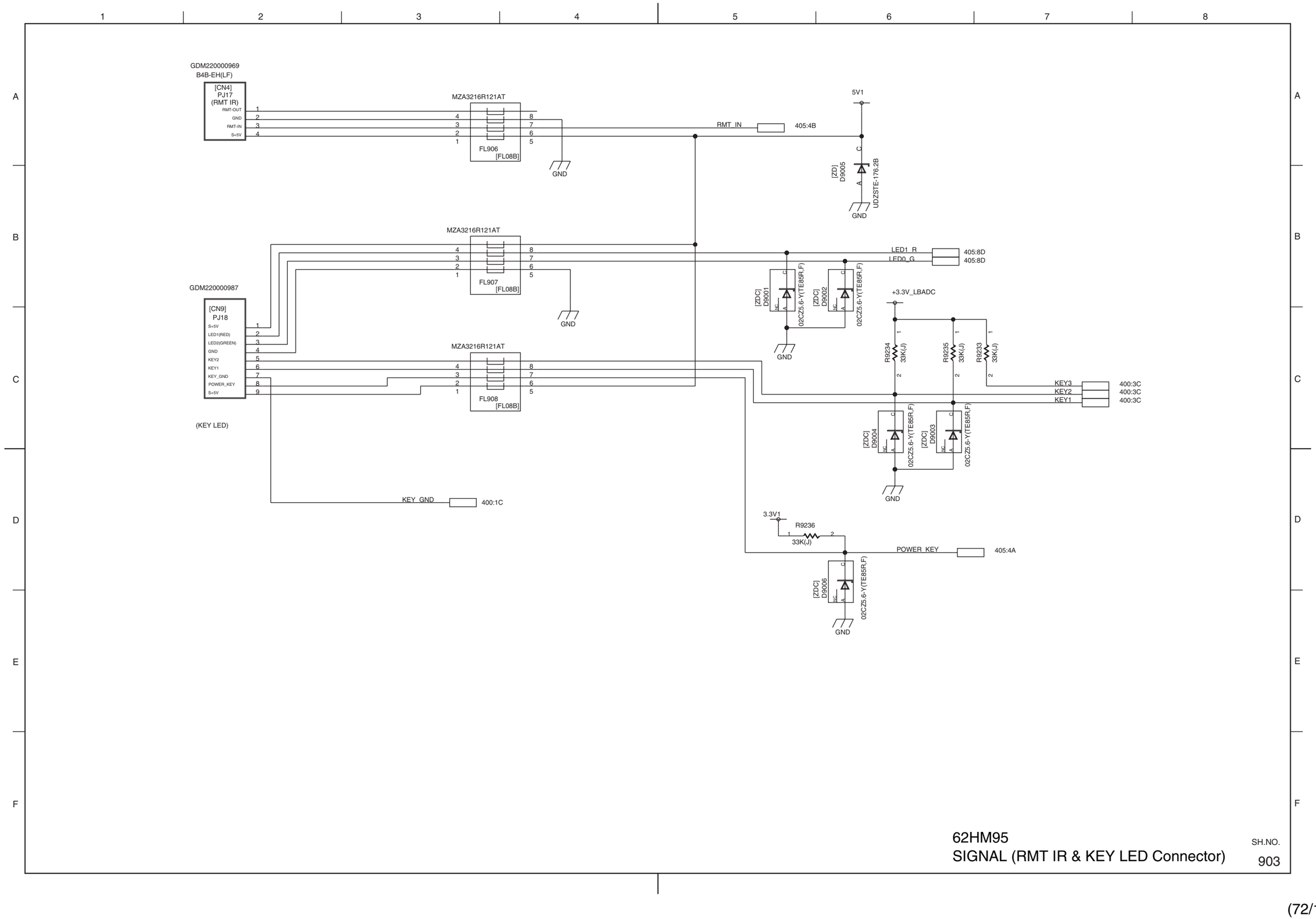
PANEL TYPE 1080P : MOUNT

RM900 !A RM905
RM914
R9232

62HM95
SIGNAL (FLI8532 LVDS_OUT)

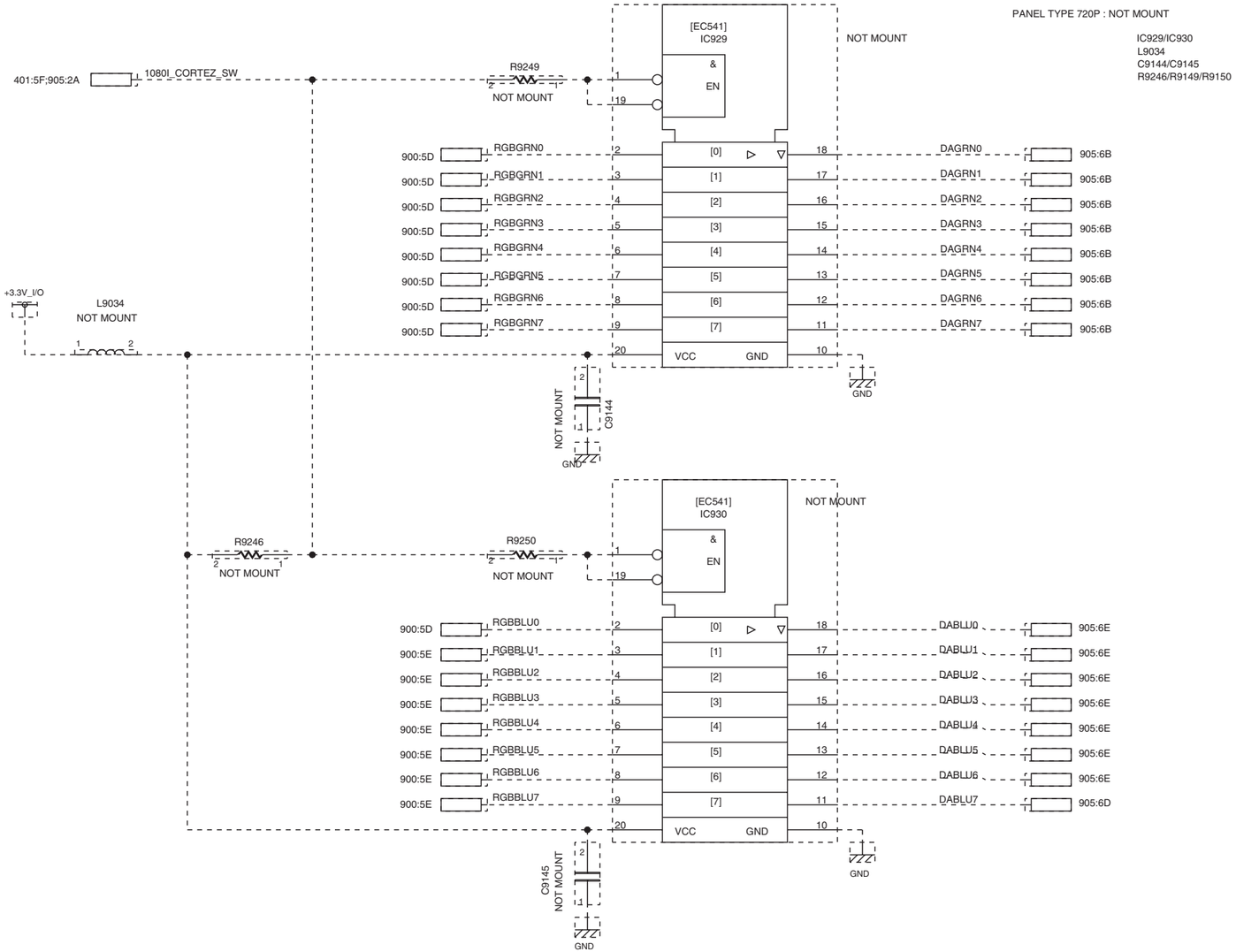
SH.NO.
900


404:6C
ASICREADY
404:2A;502:5C
C_SDA33
404:2A;502:5C
C_SCL33
[FL08B]
FL910
MZA3216R121AT
DMD_ASICREADY
DMD_SDA
DMD_SCL
DMD_LAMPPWR
DMD_LAMPLITZ
DMD_RESETZ
DMD_LAMPEN
506:6D
506:6D
506:6C
506:6D
506:6C
506:6C
506:6D
404:6B
LAMPSYNCEN
404:6C
LAMPLITZ
404:6A
RESETZ
[FL08B]
FL911
MZA3216R121AT
404:8B
LAMPPWR
FL912
MMZ1608S121CT
GDM220001531
10226-62M2PL
[C26B2]
PJ15
GND
1.GND
2.TXOUT0GND
3.ASICREADY
4.TXOUT1-
5.TXOUT1+
6.TXOUT2-
7.TXOUT2+
8.TXOUT4GND
9.SCL
10.TXCLKOUTGND
11.LAMPEN
12.TXOUT3-
13.TXOUT3+
14.TXOUT0-
15.TXOUT0+
16.RESETZ
17.TXOUT1GND
18.SDA
19.TXOUT2GND
20.TXOUT4-
21.TXOUT4+
22.TXCLKOUT-
23.TXCLKOUT+
24.LAMPLITZ
25.TXOUT3GND
26.LAMPPWR
900:6B
RX4+1
900:6B
RX4-1
900:6B
RX0+1
900:6B
RX0-1
900:6B
RX1+1
900:6B
RX1-1
900:6B
RX2+1
900:6B
RX2-1
900:6A
RXCLK+1
900:6A
RXCLK-1
900:6A
RX3+1
900:6A
RX3-1
TCM2010-201-4P-T
[FL09C]
FL949
TCM2010-201-4P-T
[FL09C]
FL950
TCM2010-201-4P-T
[FL09C]
FL951
PANEL TYPE 1080P : NOT MOUNT
FL949,FL950,FL951
PJ15
62HM95
SIGNAL (MDR CONNECTOR)
SH.NO.
901



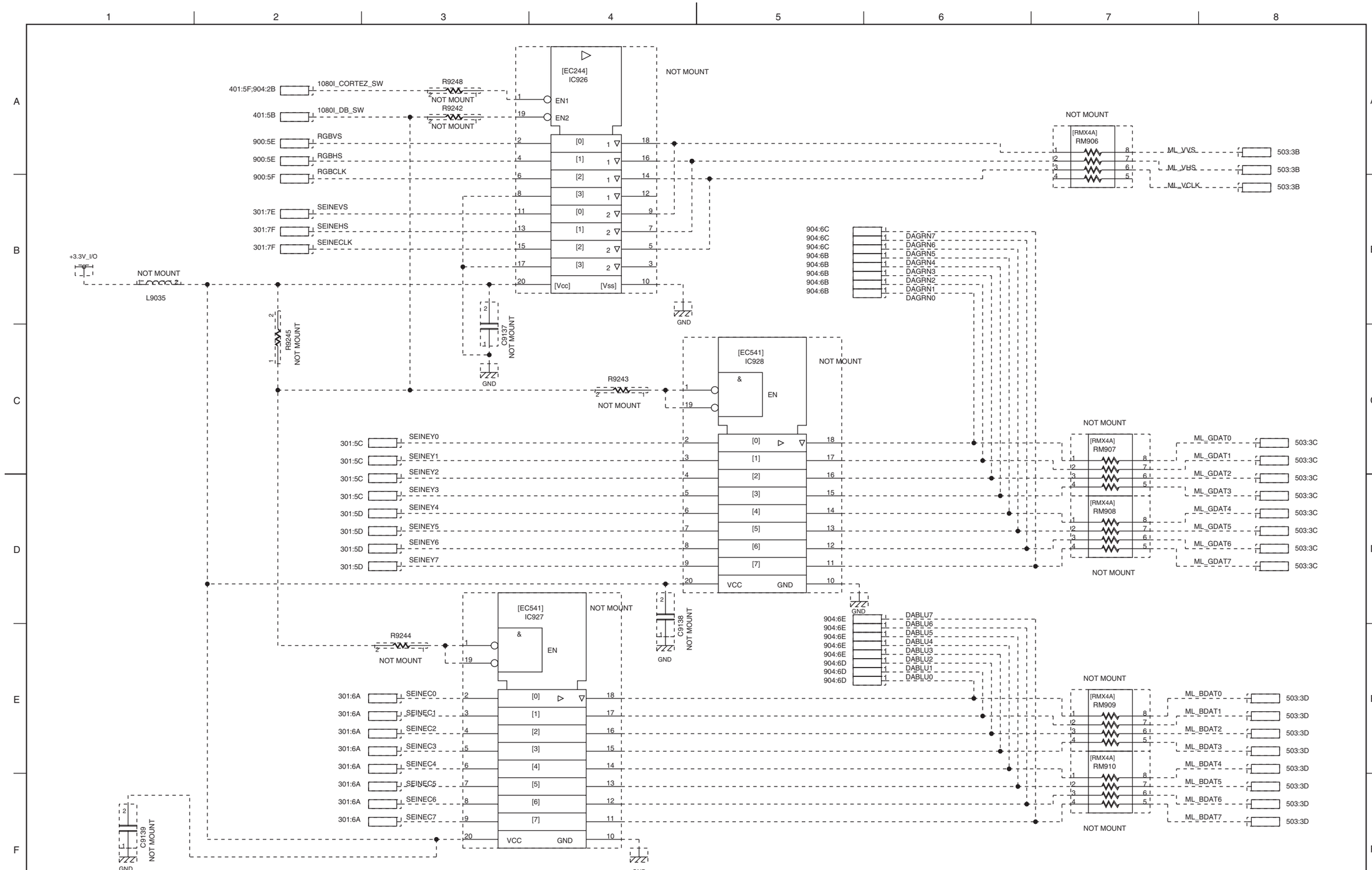
62HM95
SIGNAL (RMT IR & KEY LED Connector)

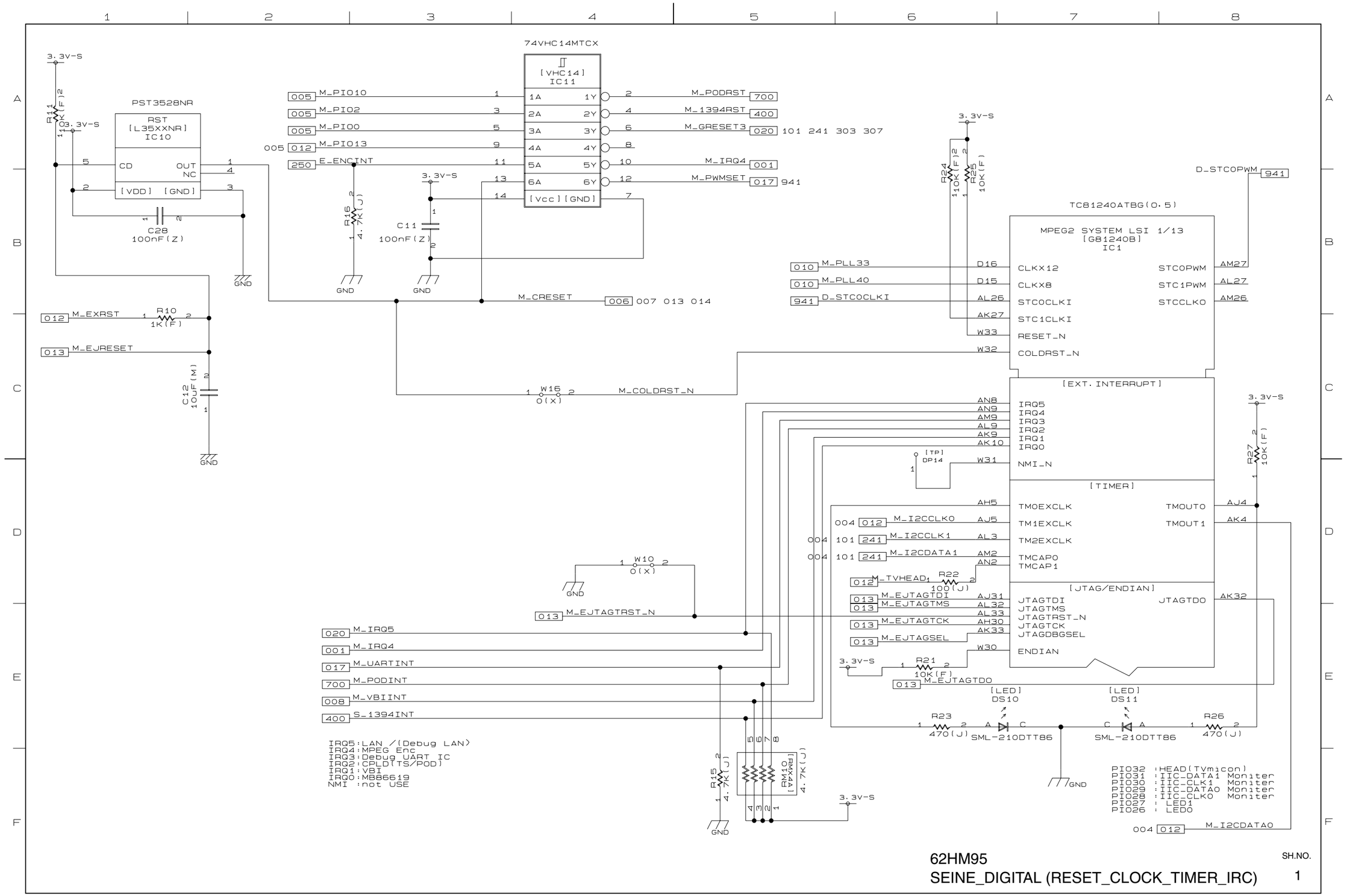
SH.NO.
903



62HM95
SIGNAL (CORTEZ Selector)

SH.NO.
904


[EC244]
IC926
NOT MOUNT
401:5F;904:2B
1080I_CORTEZ_SW
R9248
NOT MOUNT
401:5B
1080I_DB_SW
R9242
NOT MOUNT
900:5E
RGBVS
900:5E
RGBHS
900:5F
RGBCLK
301:7E
SEINEVS
301:7F
SEINEHS
301:7F
SEINECLK
EN1
EN2
[0]
[1]
[2]
[3]
[Vcc]
[Vss]
+3.3V_I/O
NOT MOUNT
L9035
R9245
NOT MOUNT
C9137
NOT MOUNT
GND
[EC541]
IC928
NOT MOUNT
R9243
NOT MOUNT
&
EN
301:5C
SEINEY0
301:5C
SEINEY1
301:5C
SEINEY2
301:5C
SEINEY3
301:5D
SEINEY4
301:5D
SEINEY5
301:5D
SEINEY6
301:5D
SEINEY7
[4]
[5]
[6]
[7]
VCC
GND
[EC541]
IC927
NOT MOUNT
R9244
NOT MOUNT
C9138
NOT MOUNT
301:6A
SEINEC0
301:6A
SEINEC1
301:6A
SEINEC2
301:6A
SEINEC3
301:6A
SEINEC4
301:6A
SEINEC5
301:6A
SEINEC6
301:6A
SEINEC7
C9139
NOT MOUNT
904:6C
904:6C
904:6C
904:6B
904:6B
904:6B
904:6B
904:6B
DAGRN7
DAGRN6
DAGRN5
DAGRN4
DAGRN3
DAGRN2
DAGRN1
DAGRN0
904:6E
904:6E
904:6E
904:6E
904:6E
904:6D
904:6D
904:6D
DABLU7
DABLU6
DABLU5
DABLU4
DABLU3
DABLU2
DABLU1
DABLU0
NOT MOUNT
[RMX4A]
RM906
ML_VVS
ML_VHS
ML_VCLK
503:3B
503:3B
503:3B
NOT MOUNT
[RMX4A]
RM907
[RMX4A]
RM908
NOT MOUNT
ML_GDAT0
ML_GDAT1
ML_GDAT2
ML_GDAT3
ML_GDAT4
ML_GDAT5
ML_GDAT6
ML_GDAT7
503:3C
503:3C
503:3C
503:3C
503:3C
503:3C
503:3C
503:3C
NOT MOUNT
[RMX4A]
RM909
[RMX4A]
RM910
NOT MOUNT
ML_BDAT0
ML_BDAT1
ML_BDAT2
ML_BDAT3
ML_BDAT4
ML_BDAT5
ML_BDAT6
ML_BDAT7
503:3D
503:3D
503:3D
503:3D
503:3D
503:3D
503:3D
503:3D
62HM95
SIGNAL (SEINE Selector)
SH.NO.
905


74VHC14MTCX
[VHC14]
IC11
PST3528NR
RST
[L35XXNR]
IC10
CD
OUT
NC
[VDD]
[GND]
3.3V-S
GND
M_PIO10
M_PIO2
M_PIO0
M_PIO13
E_ENCINT
M_PODRST
M_1394RST
M_GRESET3
M_IRQ4
M_PWMSET
M_CRESET
M_EXRST
M_EJRESET
M_COLDRST_N
TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 1/13
[G81240B]
IC1
M_PLL33
M_PLL40
D_STCOCLKI
D_STCOPWM
CLKX12
CLKX8
STC0CLKI
STC1CLKI
RESET_N
COLDRST_N
STCOPWM
STC1PWM
STCCLKO
[EXT.INTERRUPT]
IRQ5
IRQ4
IRQ3
IRQ2
IRQ1
IRQ0
NMI_N
[TIMER]
TM0EXCLK
TM1EXCLK
TM2EXCLK
TMCAP0
TMCAP1
TMOUT0
TMOUT1
M_I2CCLK0
M_I2CCLK1
M_I2CDATA1
M_TVHEAD
[JTAG/ENDIAN]
JTAGTDI
JTAGTMS
JTAGTRST_N
JTAGTCK
JTAGDBGSEL
ENDIAN
JTAGTDO
M_EJTAGTDI
M_EJTAGTMS
M_EJTAGTCK
M_EJTAGSEL
M_EJTAGTDO
M_EJTAGTRST_N
[TP]
DP14
[LED]
DS10
DS11
SML-210DTT86
M_IRQ5
M_IRQ4
M_UARTINT
M_PODINT
M_VBIINT
S_1394INT
IRQ5:LAN /(Debug LAN)
IRQ4:MPEG Enc
IRQ3:Debug UART IC
IRQ2:CPLD(TS/POD)
IRQ1:VBI
IRQ0:MB86619
NMI :not USE
PIO32 :HEAD(TVmicon)
PIO31 :IIC_DATA1 Moniter
PIO30 :IIC_CLK1 Moniter
PIO29 :IIC_DATA0 Moniter
PIO28 :IIC_CLK0 Moniter
PIO27 : LED1
PIO26 : LED0
R11 10K(F)
R10 1K(F)
R16 4.7K(J)
R15 4.7K(J)
R24 10K(F)
R25 10K(F)
R27 10K(F)
R22 100(J)
R21 10K(F)
R23 470(J)
R26 470(J)
C28 100nF(Z)
C11 100nF(Z)
C12 10UF(M)
W16 0(X)
W10 0(X)
RM10 [RM4A7]
62HM95
SEINE_DIGITAL (RESET_CLOCK_TIMER_IRC)
SH.NO.
1

TC81240ATBG(0.5)

MPEG2 SYSTEM LSI 4/13
[G81240B]
IC1

[SLOW-BUS]

SBDAT15 SBDAT14 SBDAT13 SBDAT12 SBDAT11 SBDAT10 SBDAT9 SBDAT8 SBDAT7 SBDAT6 SBDAT5 SBDAT4 SBDAT3 SBDAT2 SBDAT1 SBDAT0

SBACK_N R30

SBADD25 A32 M_SBAI25
SBADD24 B33 M_SBAI24
SBADD23 B32 M_SBAI23
SBADD22 B31 M_SBAI22
SBADD21 C30 M_SBAI21
SBADD20 C31 M_SBAI20
SBADD19 C32 M_SBAI19
SBADD18 C33 M_SBAI18
SBADD17 D33 M_SBAI17
SBADD16 D32 M_SBAI16
SBADD15 D31 M_SBAI15
SBADD14 D30 M_SBAI14
SBADD13 E29 M_SBAI13
SBADD12 E30 M_SBAI12
SBADD11 E31 M_SBAI11
SBADD10 E32 M_SBAI10
SBADD9 E33 M_SBAI9
SBADD8 F33 M_SBAI8
SBADD7 F32 M_SBAI7
SBADD6 F31 M_SBAI6
SBADD5 F30 M_SBAI5
SBADD4 F29 M_SBAI4
SBADD3 G30 M_SBAI3
SBADD2 G31 M_SBAI2
SBADD1 G32 M_SBAI1

SBWE_N A31 M_SBWE-1
SBOE_N L33 M_SBOE-1

SBCE7_N M33 M_SBCE7-1
SBCE6_N M32 M_SBCE6-1
SBCE5_N M31 M_SBCE5-1
SBCE4_N M30 M_SBCE4-1
SBCE3_N N30 M_SBCE3-1
SBCE2_N N31 M_SBCE2-1
SBCE1_N N32 M_SBCE1-1
SBCE0_N N33 M_SBCE0-1

SBBE1_N P32 M_SBBE1-1
SBBE0_N P33 M_SBBE0-1

SBCLK1 P31 M_SBCLK1-1
SBCLK0 P30 M_SBCLK0-1

M_SBDI15 G33
M_SBDI14 H33
M_SBDI13 H32
M_SBDI12 H31
M_SBDI11 H30
M_SBDI10 J30
M_SBDI9 J31
M_SBDI8 J32
M_SBDI7 J33
M_SBDI6 K33
M_SBDI5 K32
M_SBDI4 K31
M_SBDI3 K30
M_SBDI2 L30
M_SBDI1 L31
M_SBDI0 L32

006 007 250 400 701 M_SBD15 8 — [RMX4A] RM15 — 1 M_SBDI15
006 007 250 400 701 M_SBD14 7 — 2 M_SBDI14
006 007 250 400 701 M_SBD13 6 — 3 M_SBDI13
006 007 250 400 701 M_SBD12 5 — 4 M_SBDI12
33(J)

006 007 250 400 701 M_SBD11 8 — [RMX4A] RM16 — 1 M_SBDI11
006 007 250 400 701 M_SBD10 7 — 2 M_SBDI10
006 007 250 400 701 M_SBD9 6 — 3 M_SBDI9
006 007 250 400 701 M_SBD8 5 — 4 M_SBDI8
33(J)

006 007 017 400 701 M_SBD7 8 — [RMX4A] RM17 — 1 M_SBDI7
006 007 017 400 701 M_SBD6 7 — 2 M_SBDI6
006 007 017 400 701 M_SBD5 6 — 3 M_SBDI5
006 007 017 400 701 M_SBD4 5 — 4 M_SBDI4
33(J)

006 007 017 400 701 M_SBD3 8 — [RMX4A] RM18 — 1 M_SBDI3
006 007 017 400 701 M_SBD2 7 — 2 M_SBDI2
006 007 017 400 701 M_SBD1 6 — 3 M_SBDI1
006 007 017 400 701 M_SBD0 5 — 4 M_SBDI0
33(J)

3.3V-S

RM11 [RMX4A] 4.7K(J)
M_SBDI12 — 4 5 M_SBDI13 — 3 6 M_SBDI14 — 2 7 M_SBDI15 — 1 8

RM12 [RMX4A] 4.7K(J)
M_SBDI8 — 4 5 M_SBDI9 — 3 6 M_SBDI10 — 2 7 M_SBDI11 — 1 8

RM13 [RMX4A] 4.7K(J)
M_SBDI4 — 4 5 M_SBDI5 — 3 6 M_SBDI6 — 2 7 M_SBDI7 — 1 8

RM14 [RMX4A] 4.7K(J)
M_SBDI0 — 4 5 M_SBDI1 — 3 6 M_SBDI2 — 2 7 M_SBDI3 — 1 8

3.3V-S
R29 4.7K(J)
700 M_SBACK 2 — R20 22(J) — 1

M_SBCE0-1 — 4 M_SBCE1-1 — 3 M_SBCE3-1 — 2 M_SBCE2-1 — 1
RM27 [RMX4A] 47(J)
5 M_BROMCE 006
6 M_EXTROMCE 007
7 M_SBCE3 400
8 M_SBCE2 700

for IC19(FlashROM). IC20(MaskROM)
for IC18(M-SYSTEM)

M_SBAI25 003
M_SBAI24 003
M_SBAI23 003
M_SBAI22 003
M_SBAI21 003
M_SBAI20 003
M_SBAI19 003
M_SBAI18 003
M_SBAI17 003
M_SBAI16 003
M_SBAI15 003
M_SBAI14 003
M_SBAI13 003
M_SBAI12 003
M_SBAI11 003
M_SBAI9 003
M_SBAI8 003
M_SBAI7 003
M_SBAI6 003
M_SBAI5 003
M_SBAI4 003
M_SBAI3 003
M_SBAI2 003
M_SBAI1 003

4 M_SBOE4 700 — for IC255
3 M_SBOE2 400 — for IC401.IC140
2 M_SBOE3 017 — 700
1 M_SBOE1 006 — 007 for IC19.IC20
RM48 [RMX4A] 47(J)

M_SBWE2 400 — for IC401.IC140
4 M_SBWE4 700 — for IC255
3 M_SBWE3 017 — 700
2 M_SBWE1 006 — 007 for IC19.IC20
RM49 [RMX4A] 47(J)

3.3V-S
R39 1M(J)
R40 1M(J)

& [7W08] IC15
M_SBOE-1 — 1 [1] 7
2
M_SBWE-1 — 5 [2] 3
6
3.3V-S — 8 [VCC][VSS] 4
TC7W08FK(TE85L.F)
C17 100nF(Z) — GND

[TP] DP18 — M_SBCE4-1
[TP] DP13 — M_SBCE5-1
[TP] DP17 — M_SBCLK1-1

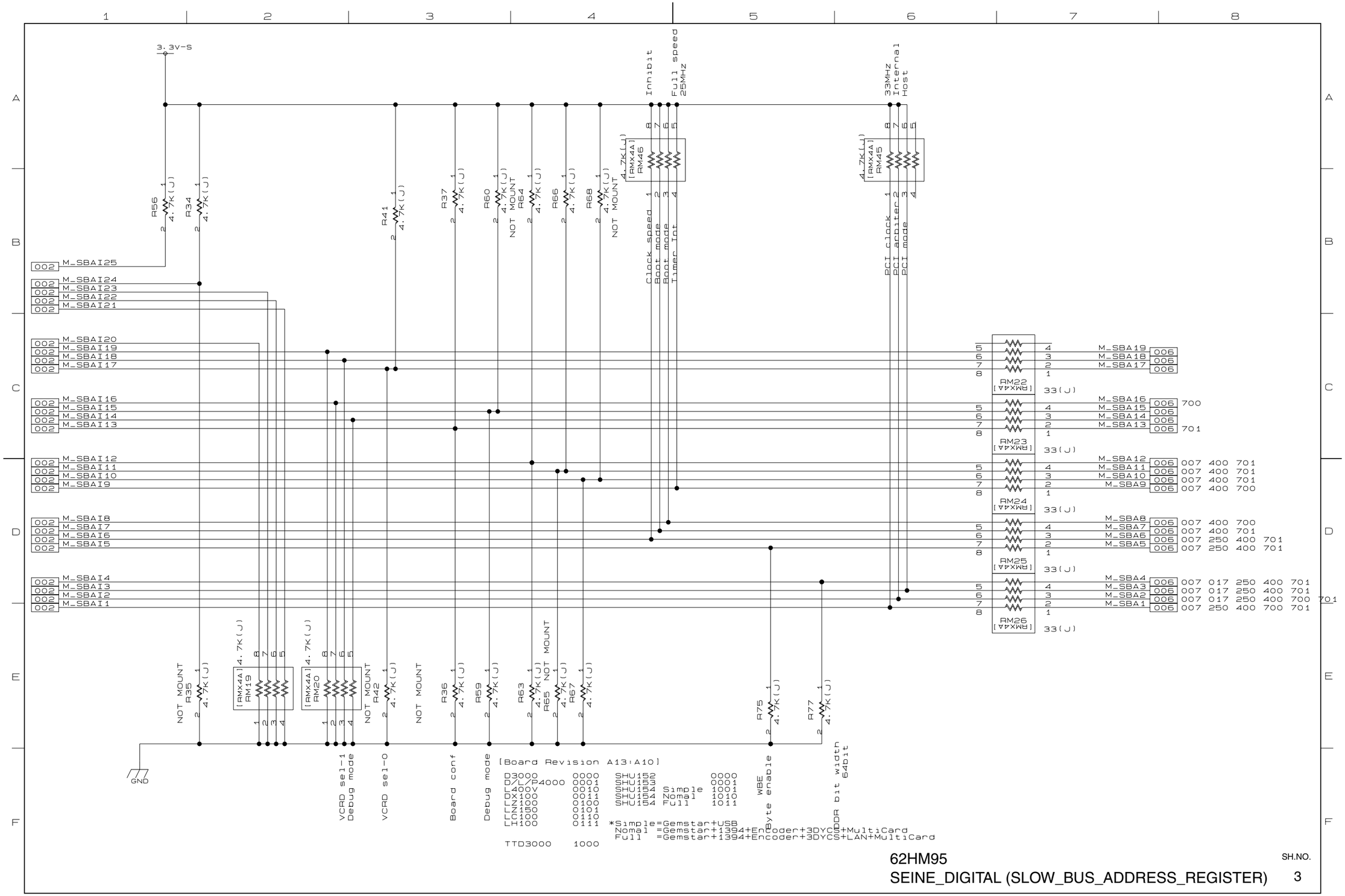
M_SBBE1-1 — 4 M_SBBE0-1 — 3 M_SBCE6-1 — 2 M_SBCE7-1 — 1
RM47 [RMX4A] 47(J)
5 M_SBBE1 700
6 M_SBBE0 700
7 M_SBCE6 700
8 M_SBCE7 017

M_SBCLK0-1 — R38 47(J) — 2 M_SBCLK0 700

CE0:Boot FLASH
CE1:M-SYSTEM
CE2:uPD61051GD
CE3:MB86619
CE4: N/A
CE5: N/A
CE6:POD PLD
CE7:UART

62HM95
SEINE_DIGITAL (SLOW_BUS)

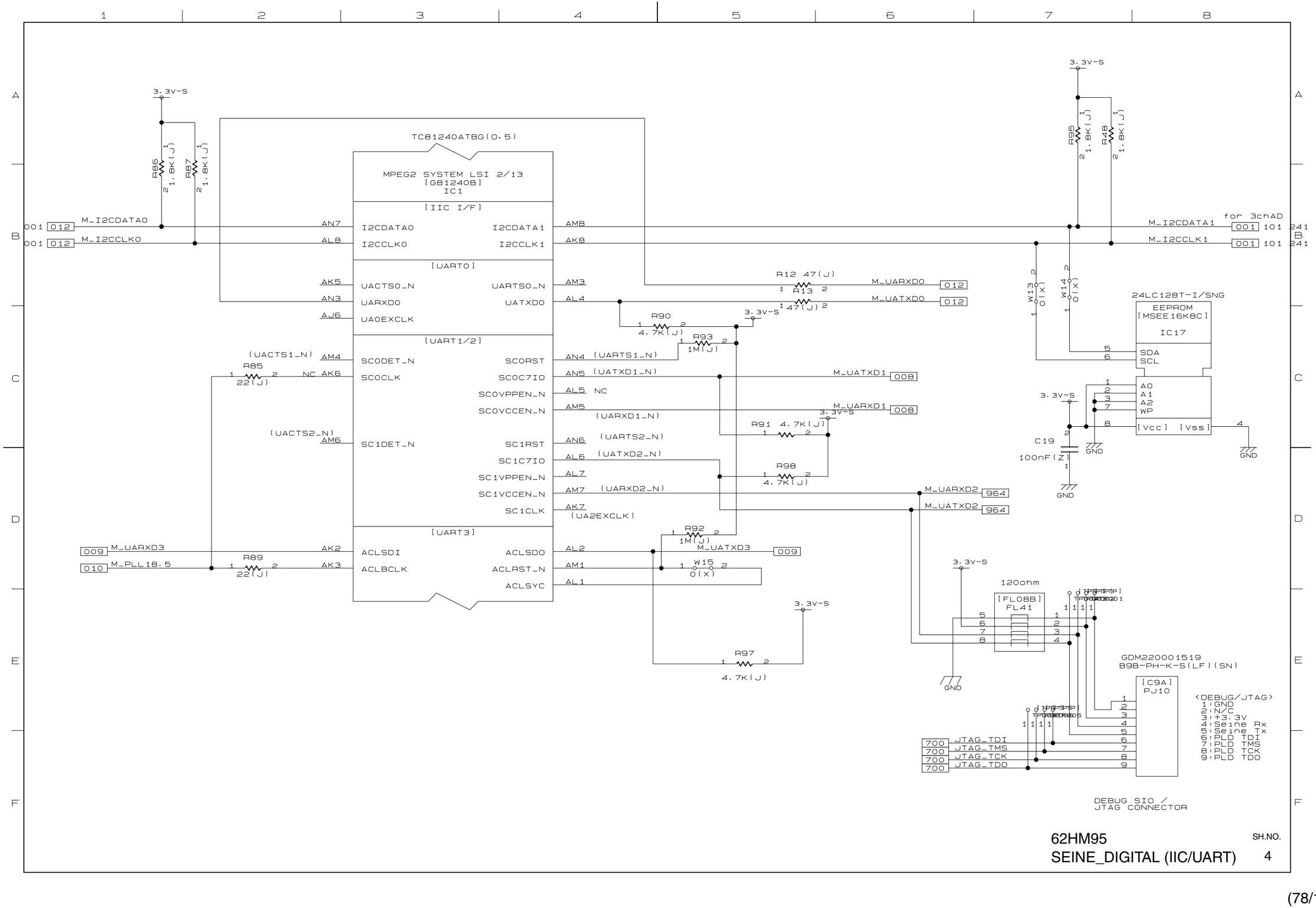
SH.NO. 2



62HM95

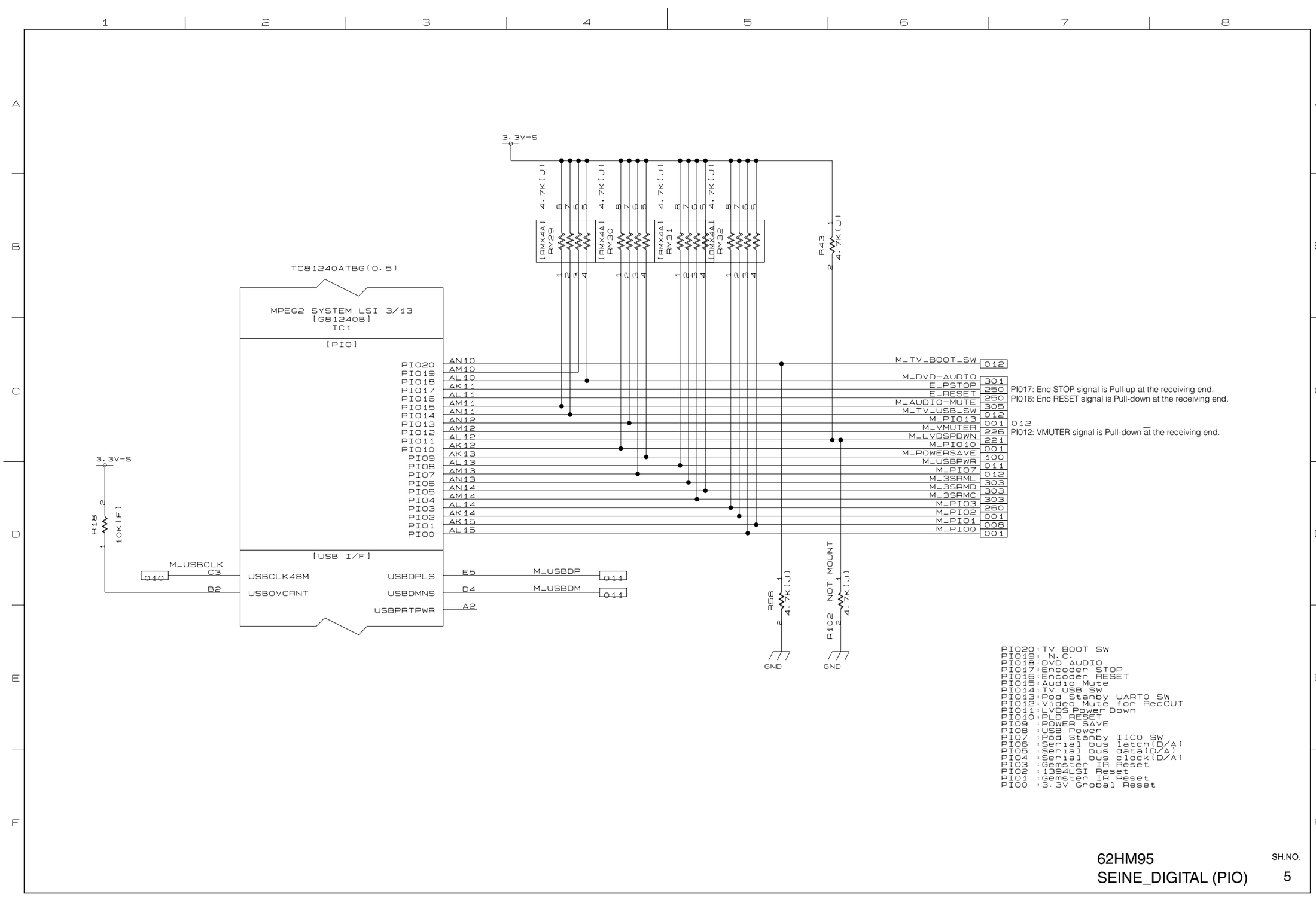
SEINE_DIGITAL (SLOW_BUS_ADDRESS_REGISTER)

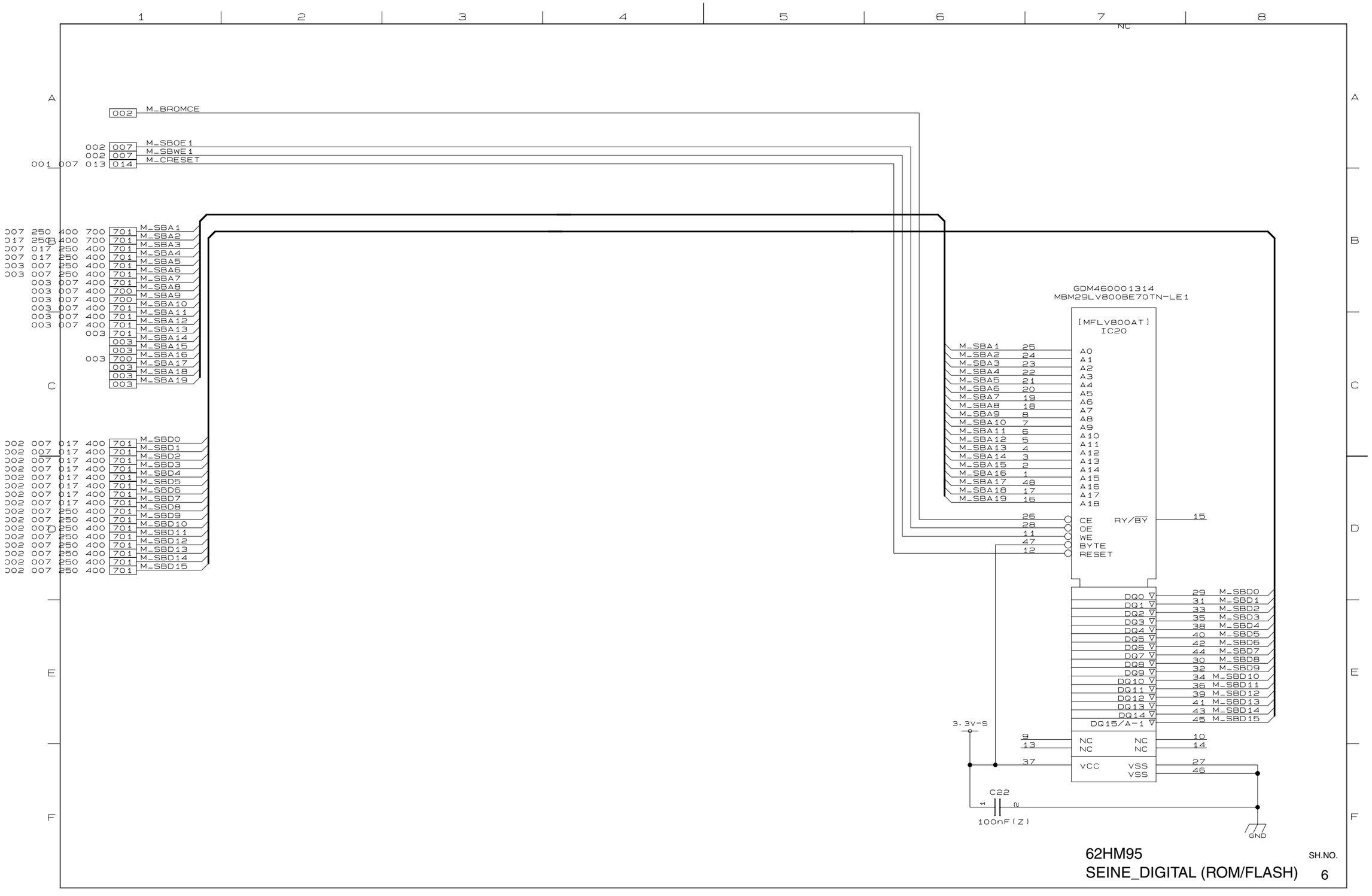
SH.NO. 3

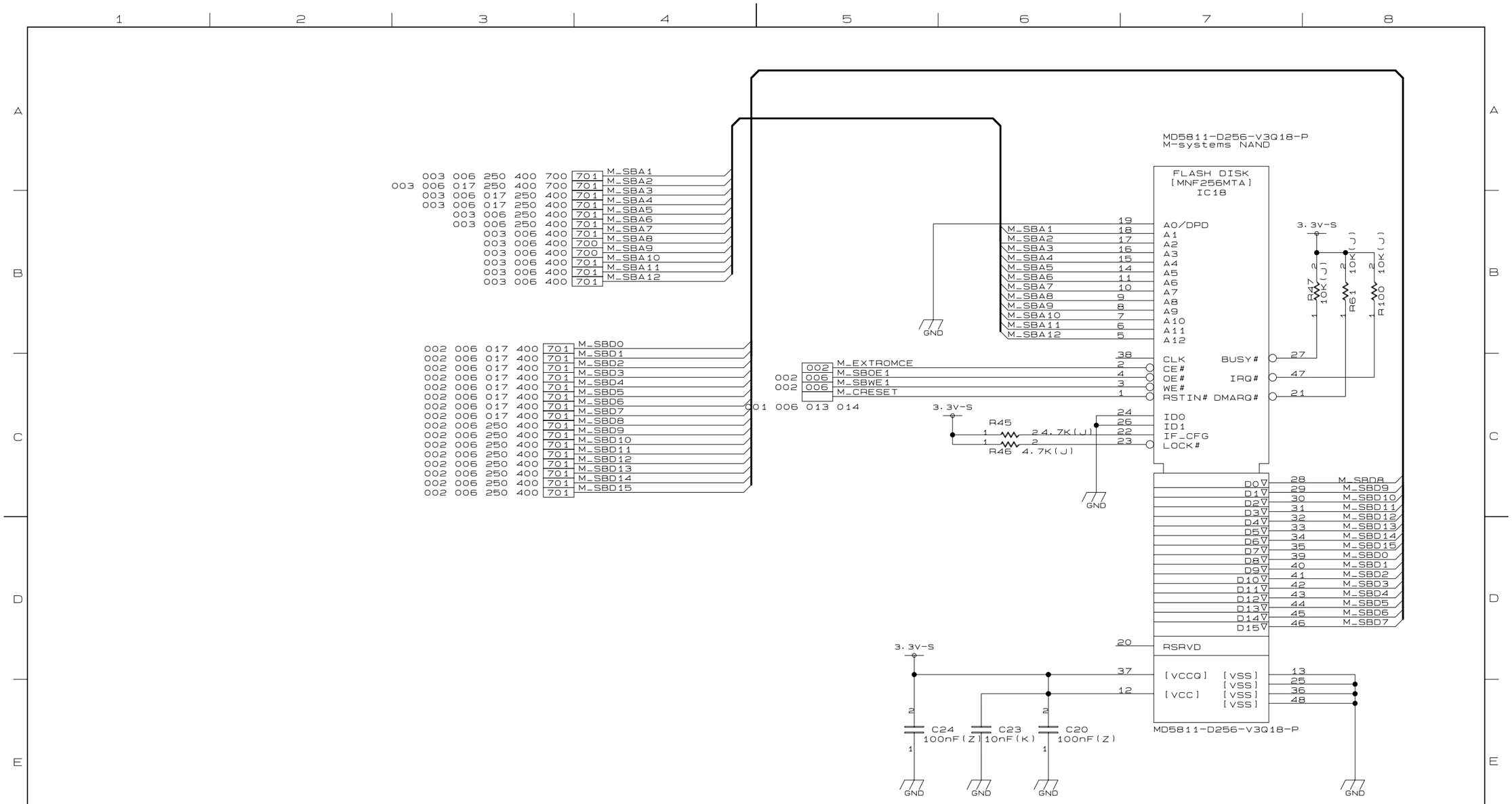


62HM95
SEINE_DIGITAL (IIC/UART)

SH.NO. 4

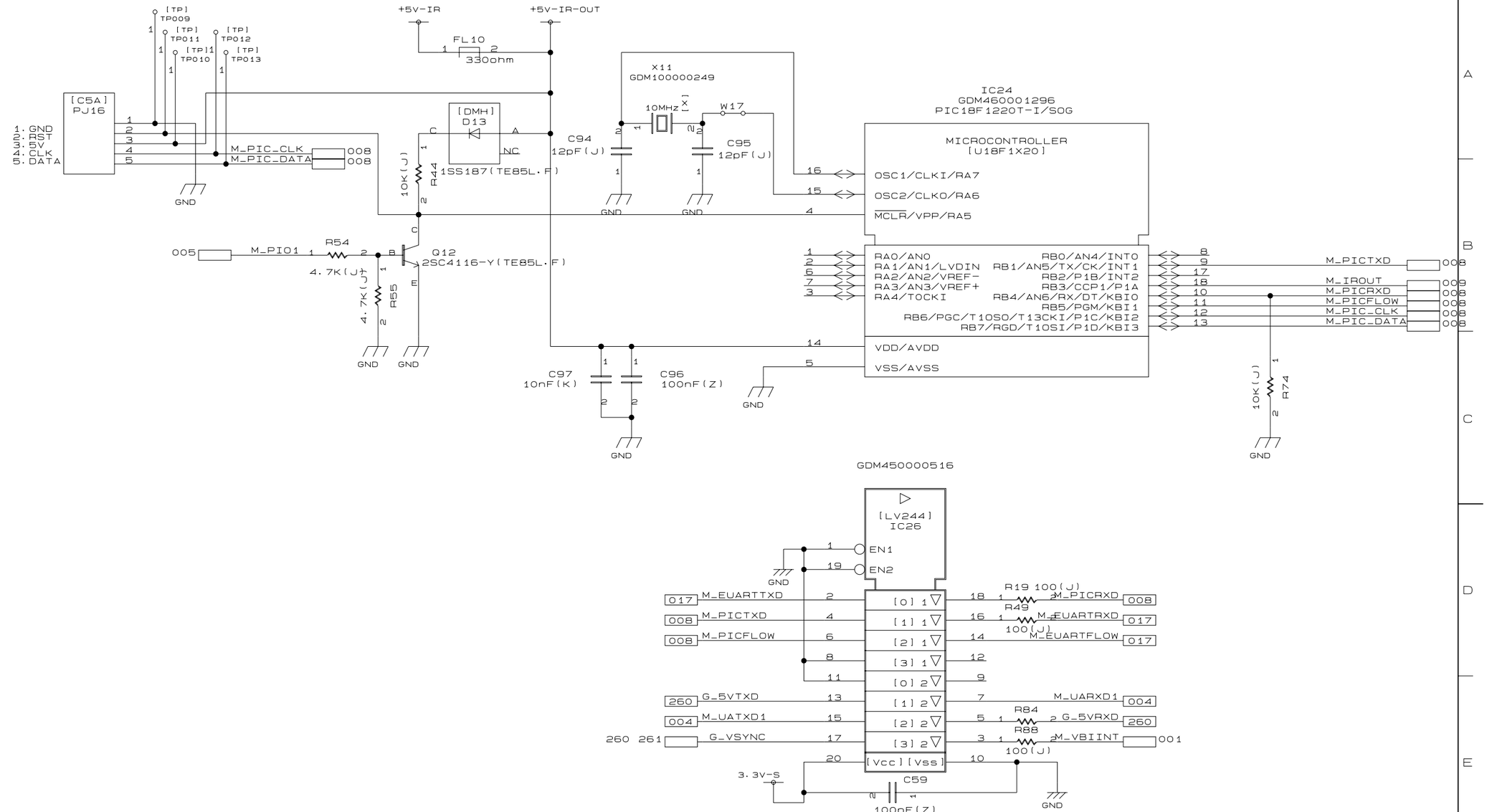

3.3V-S
4.7K(J)
RMX4A1
RM29
RM30
RM31
RM32
R43
TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 3/13
[G81240B]
IC1
[PIO]
PIO20 AN10
PIO19 AM10
PIO18 AL10
PIO17 AK11
PIO16 AL11
PIO15 AM11
PIO14 AN11
PIO13 AN12
PIO12 AM12
PIO11 AL12
PIO10 AK12
PIO09 AK13
PIO08 AL13
PIO07 AM13
PIO06 AN13
PIO05 AN14
PIO04 AM14
PIO03 AL14
PIO02 AK14
PIO01 AK15
PIO00 AL15
M_TV_BOOT_SW 012
M_DVD-AUDIO 301
E_PSTOP 250
E_RESET 250
M_AUDIO-MUTE 305
M_TV_USB_SW 012
M_PIO13 001
M_VMUTER 226
M_LVDSPDWN 221
M_PIO10 001
M_POWERSAVE 100
M_USBPWR 011
M_PIO7 012
M_3SRML 303
M_3SRMD 303
M_3SRMC 303
M_PIO3 260
M_PIO2 001
M_PIO1 008
M_PIO0 001
PI017: Enc STOP signal is Pull-up at the receiving end.
PI016: Enc RESET signal is Pull-down at the receiving end.
012
PI012: VMUTER signal is Pull-down at the receiving end.
3.3V-S
R18
10K(F)
[USB I/F]
M_USBCLK
C3
010
USBCLK48M
B2
USB0VCRNT
USBDPLS
USBDMNS
USBPRTPWR
E5
D4
A2
M_USBDP
M_USBDM
011
R58
4.7K(J)
R102
NOT MOUNT
GND
PIO20:TV BOOT SW
PIO19: N.C.
PIO18:DVD AUDIO
PIO17:Encoder STOP
PIO16:Encoder RESET
PIO15:Audio Mute
PIO14:TV USB SW
PIO13:Pod Stanby UARTO SW
PIO12:Video Mute for RecOUT
PIO11:LVDS Power Down
PIO10:PLD RESET
PIO09 :POWER SAVE
PIO08 :USB Power
PIO07 :Pod Stanby IICO SW
PIO06 :Serial bus latch(D/A)
PIO05 :Serial bus data(D/A)
PIO04 :Serial bus clock(D/A)
PIO03 :Gemster IR Reset
PIO02 :1394LSI Reset
PIO01 :Gemster IR Reset
PIO00 :3.3V Grobal Reset
62HM95
SEINE_DIGITAL (PIO)
SH.NO.
5


NC
M_BROMCE
M_SBOE1
M_SBWE1
M_CRESET
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
M_SBA16
M_SBA17
M_SBA18
M_SBA19
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_SBD8
M_SBD9
M_SBD10
M_SBD11
M_SBD12
M_SBD13
M_SBD14
M_SBD15
GDM460001314
MBM29LV800BE70TN-LE1
[MFLV800AT]
IC20
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
CE
OE
WE
BYTE
RESET
RY/BY
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15/A-1
NC
NC
VCC
VSS
3.3V-S
C22
100nF(Z)
GND
62HM95
SEINE_DIGITAL (ROM/FLASH)
SH.NO.
6



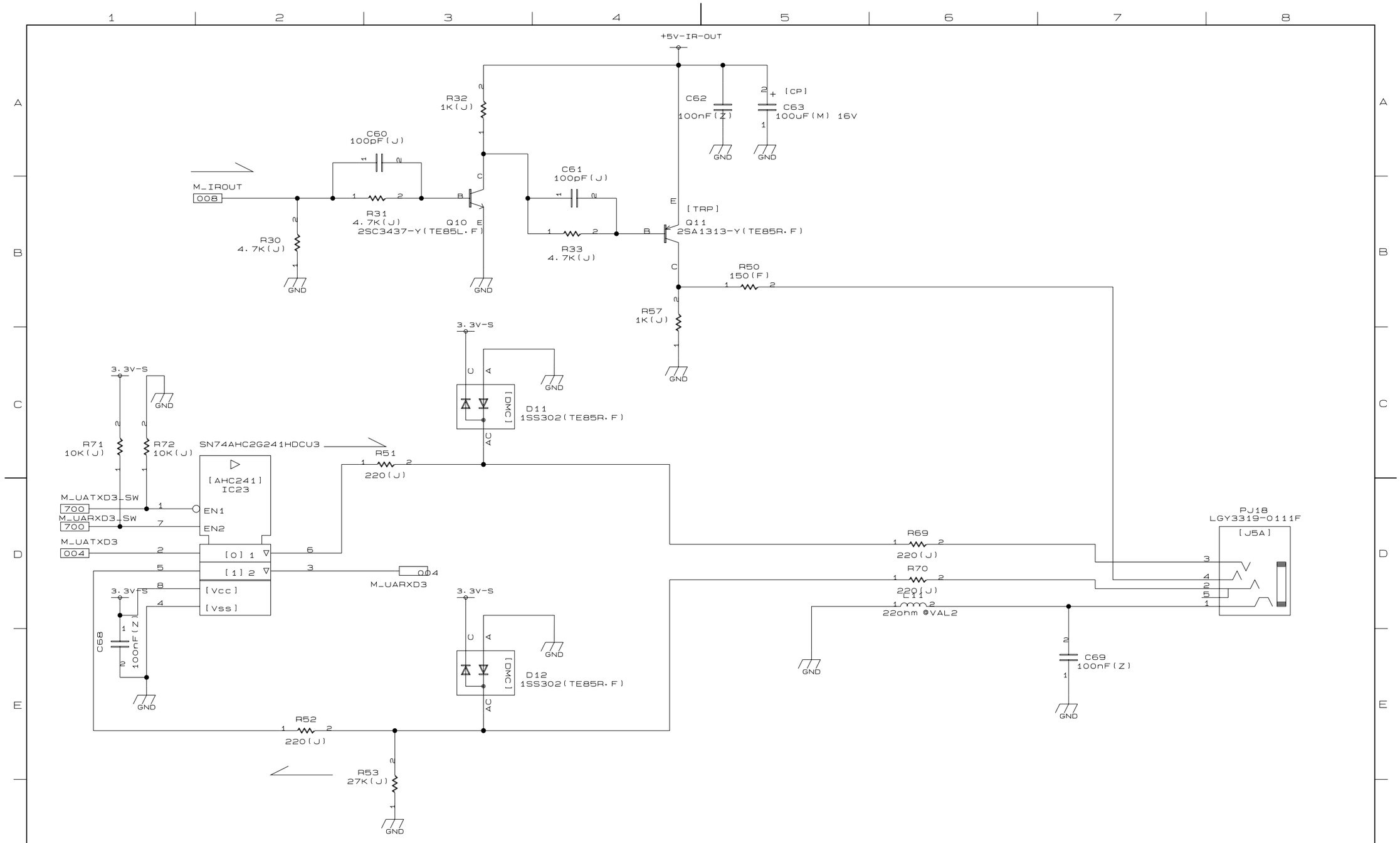
62HM95
SEINE_DIGITAL (M-SYSTEM_NAND_FLASHROM)

SH.NO. 7



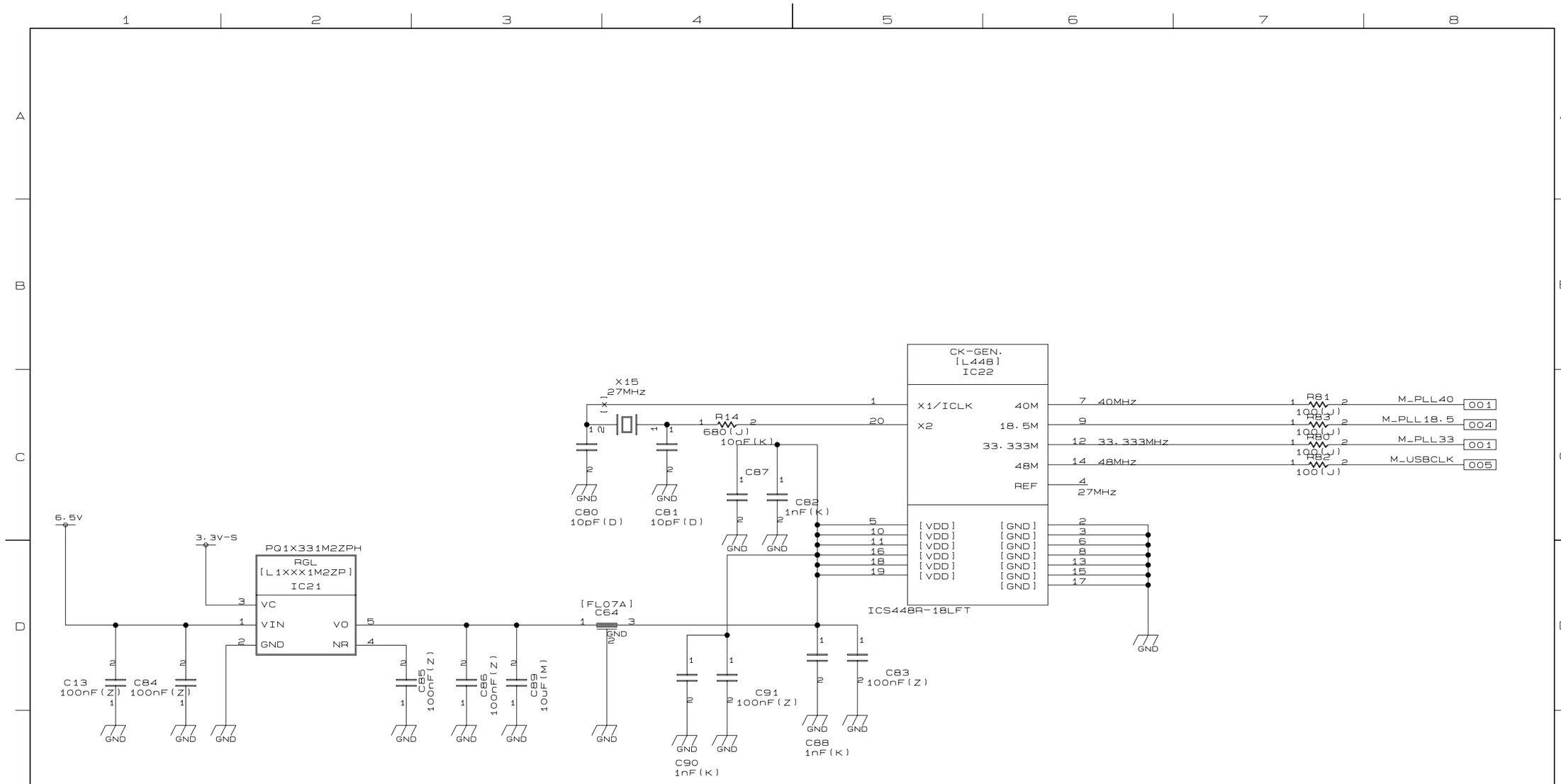
62HM95
SEINE_DIGITAL (IR)

SH.NO. 8



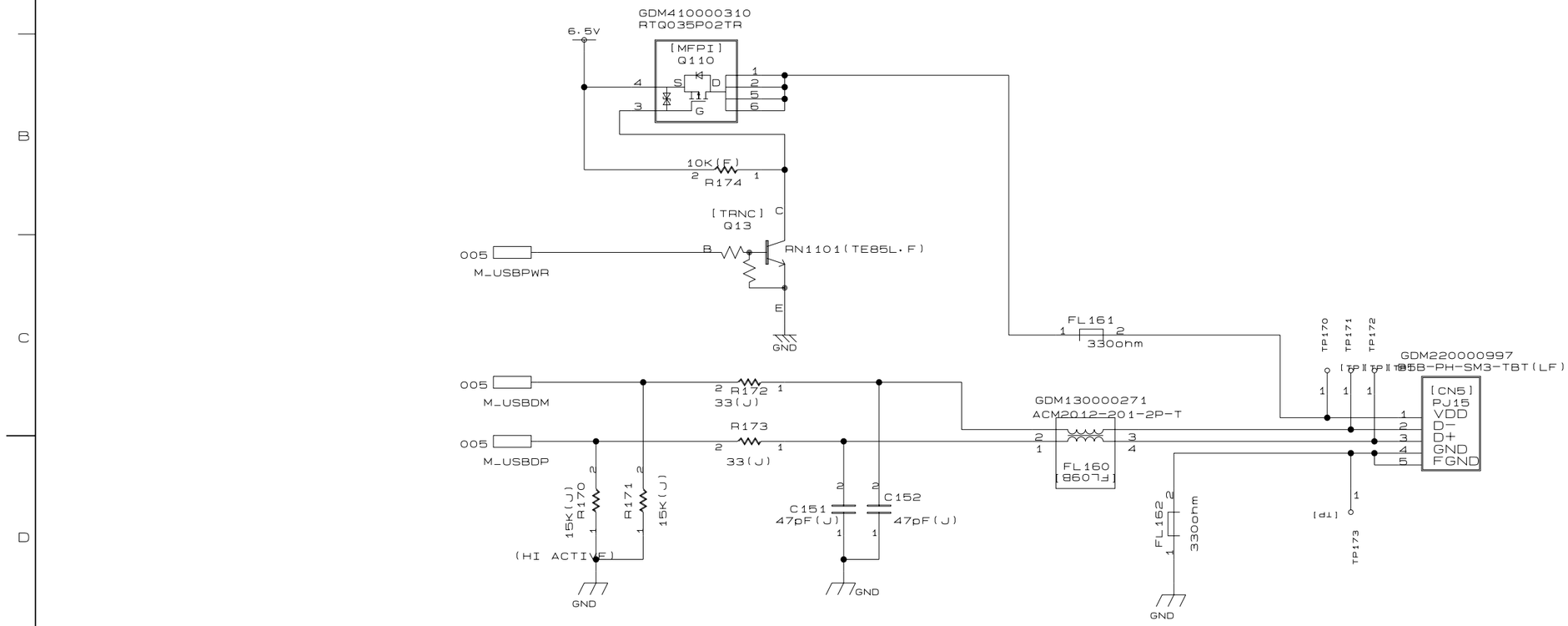
62HM95
SEINE_DIGITAL (GLINK_IR-OUT)

SH.NO. 9



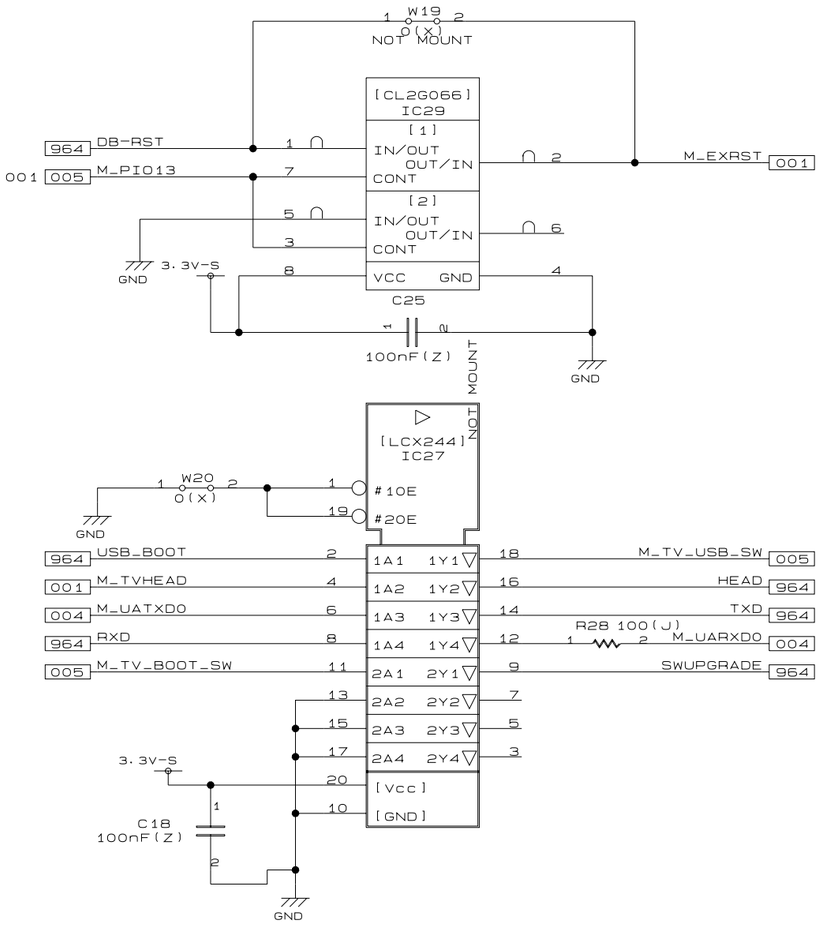
62HM95
SEINE_DIGITAL (CLOCK_GENERATOR)

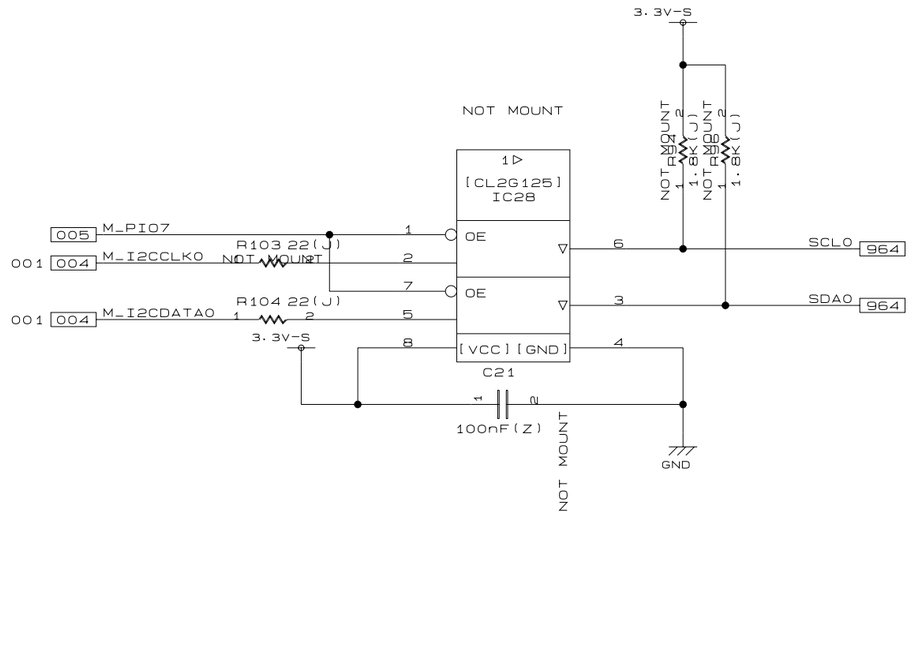
SH.NO.
10



62HM95
SEINE_DIGITAL (USB_I/F)

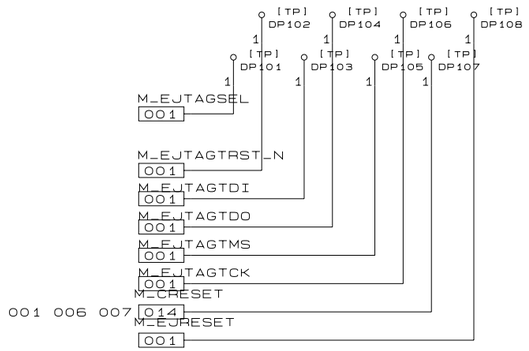
SH.NO. 11





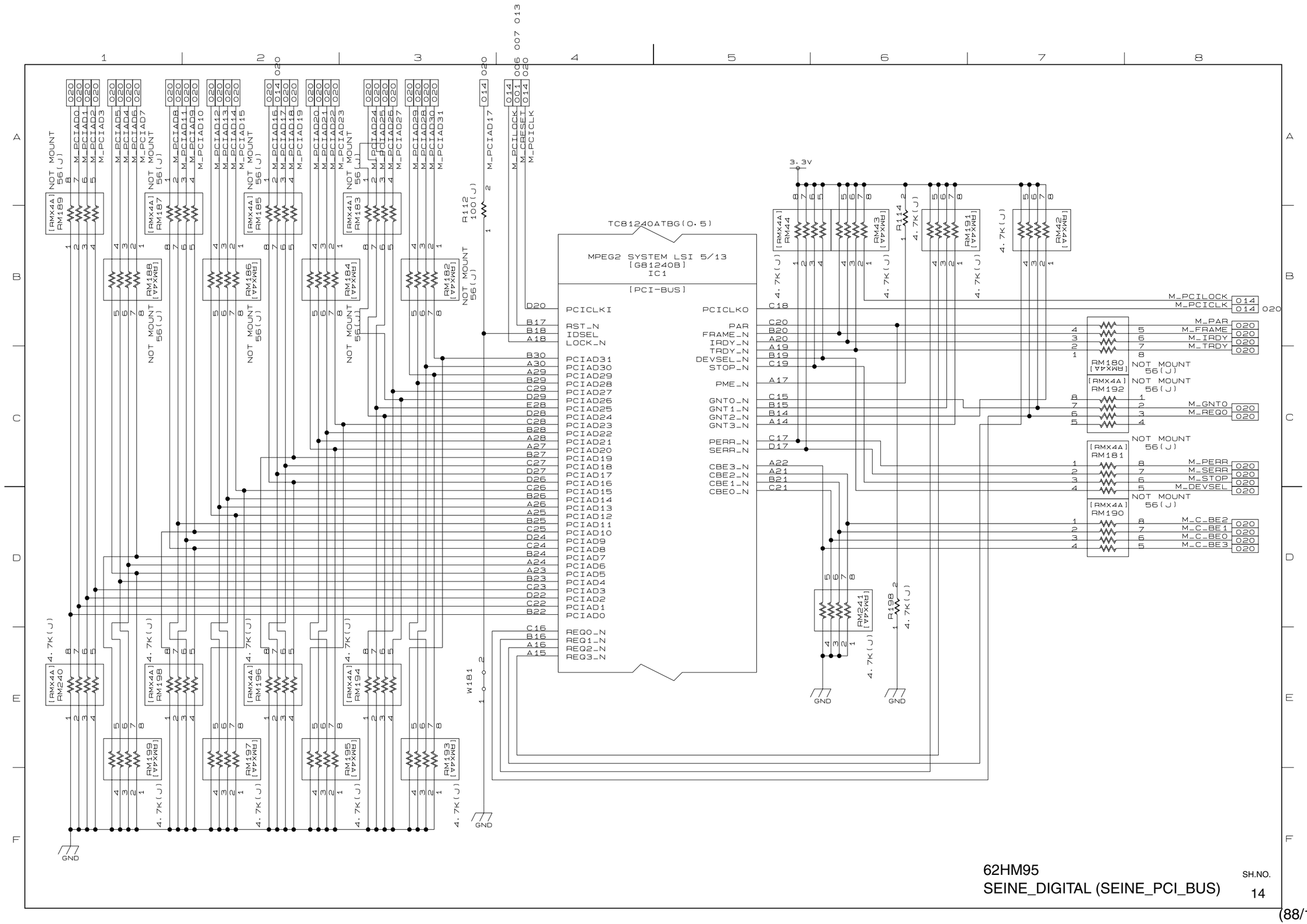
62HM95
SEINE_DIGITAL (UARTO_INTERFACE)

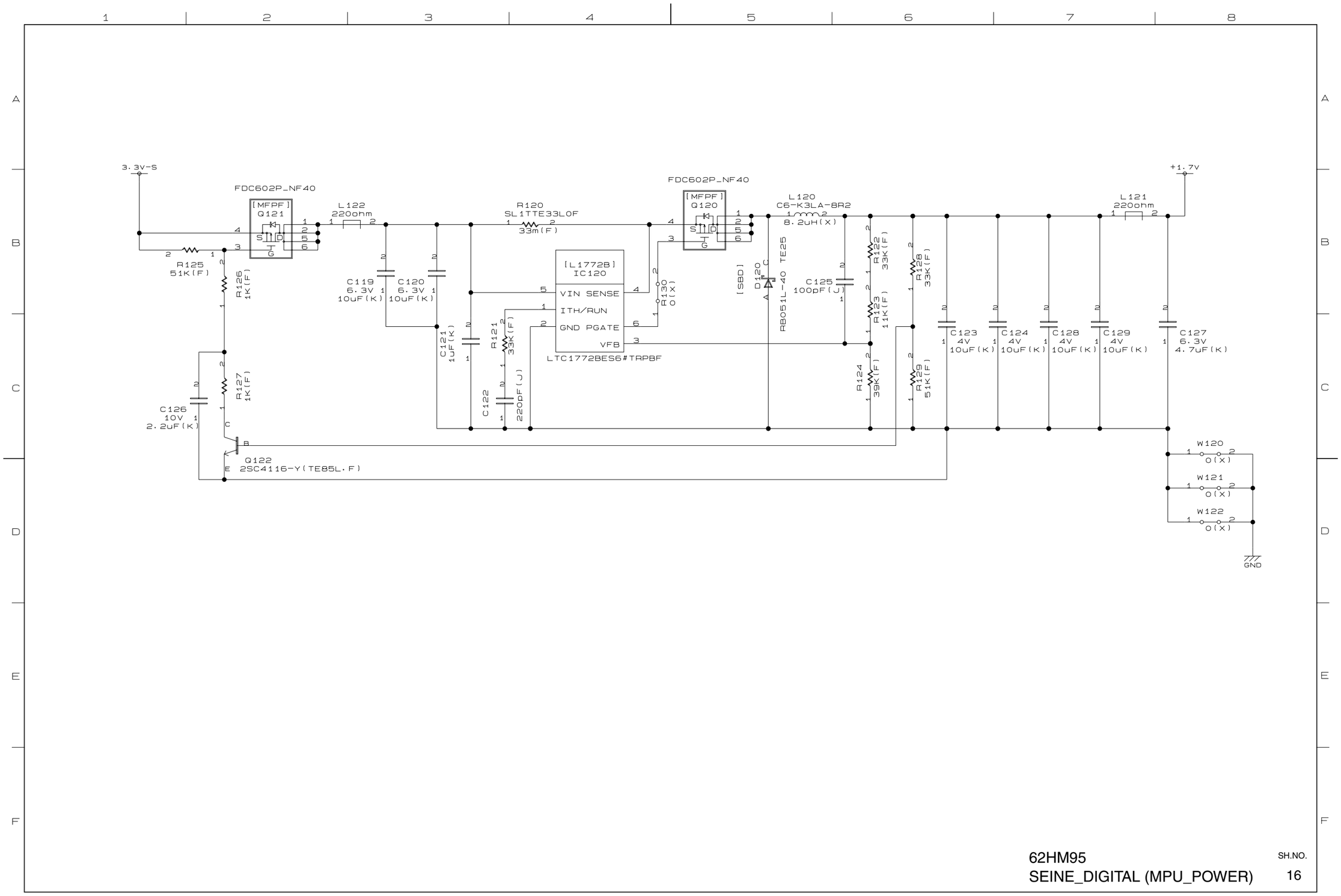
SH.NO. 12



62HM95
SEINE_DIGITAL (EJTAG_CONNECTOR)

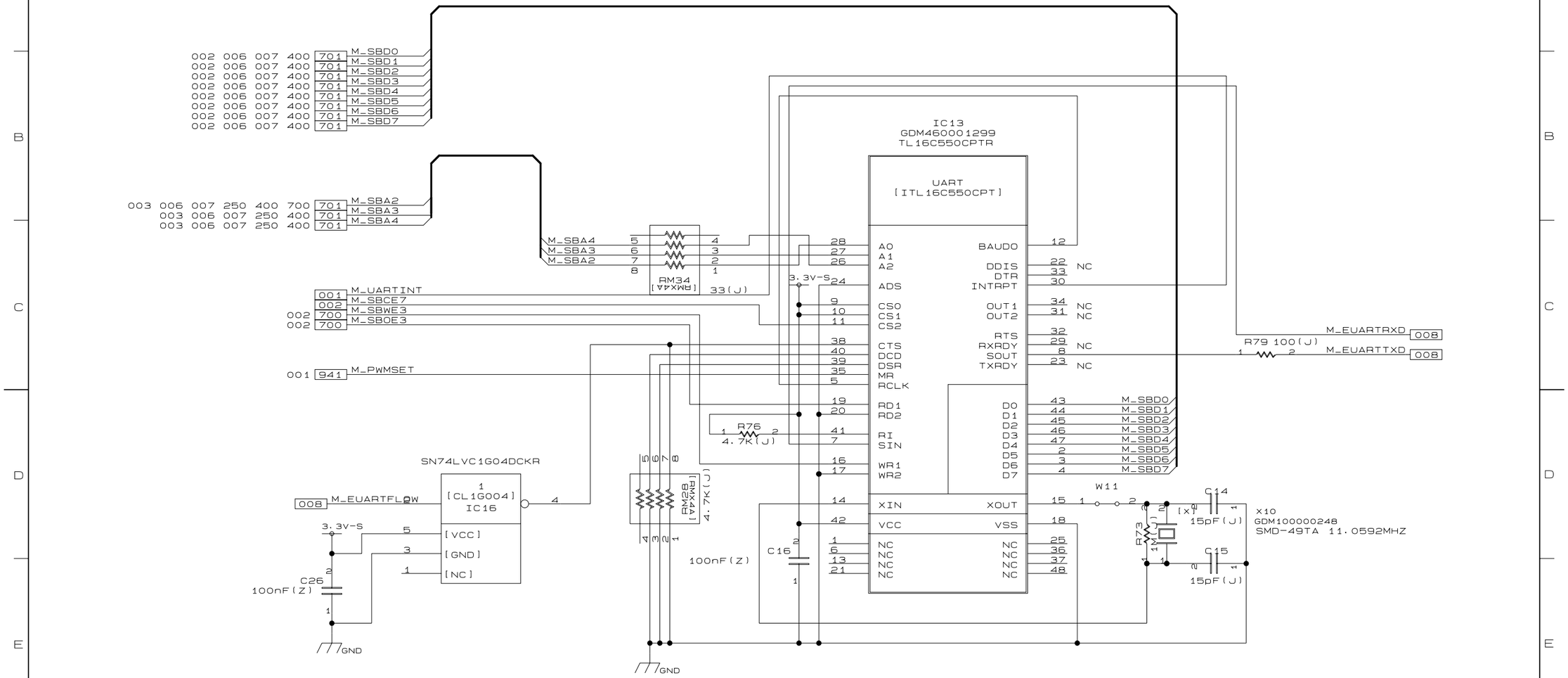
SH.NO. 13


TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 5/13
[G81240B]
IC1
[PCI-BUS]
PCICLKI
RST_N
IDSEL
LOCK_N
PCIAD31
PCIAD30
PCIAD29
PCIAD28
PCIAD27
PCIAD26
PCIAD25
PCIAD24
PCIAD23
PCIAD22
PCIAD21
PCIAD20
PCIAD19
PCIAD18
PCIAD17
PCIAD16
PCIAD15
PCIAD14
PCIAD13
PCIAD12
PCIAD11
PCIAD10
PCIAD9
PCIAD8
PCIAD7
PCIAD6
PCIAD5
PCIAD4
PCIAD3
PCIAD2
PCIAD1
PCIAD0
REQ0_N
REQ1_N
REQ2_N
REQ3_N
PCICLKO
PAR
FRAME_N
IRDY_N
TRDY_N
DEVSEL_N
STOP_N
PME_N
GNT0_N
GNT1_N
GNT2_N
GNT3_N
PERR_N
SERR_N
CBE3_N
CBE2_N
CBE1_N
CBE0_N
M_PCIAD0
M_PCIAD1
M_PCIAD2
M_PCIAD3
M_PCIAD4
M_PCIAD5
M_PCIAD6
M_PCIAD7
M_PCIAD8
M_PCIAD9
M_PCIAD10
M_PCIAD11
M_PCIAD12
M_PCIAD13
M_PCIAD14
M_PCIAD15
M_PCIAD16
M_PCIAD17
M_PCIAD18
M_PCIAD19
M_PCIAD20
M_PCIAD21
M_PCIAD22
M_PCIAD23
M_PCIAD24
M_PCIAD25
M_PCIAD26
M_PCIAD27
M_PCIAD28
M_PCIAD29
M_PCIAD30
M_PCIAD31
M_PCILOCK
M_CRESET
M_PCICLK
M_PCICLKI
M_PAR
M_FRAME
M_IRDY
M_TRDY
M_GNTO
M_REQO
M_PERR
M_SERR
M_STOP
M_DEVSEL
M_C_BE2
M_C_BE1
M_C_BE0
M_C_BE3
R112 100(J)
R114 4.7K(J)
R198 4.7K(J)
W181
3.3V
GND
NOT MOUNT 56(J)
4.7K(J)
62HM95
SEINE_DIGITAL (SEINE_PCI_BUS)
SH.NO.
14



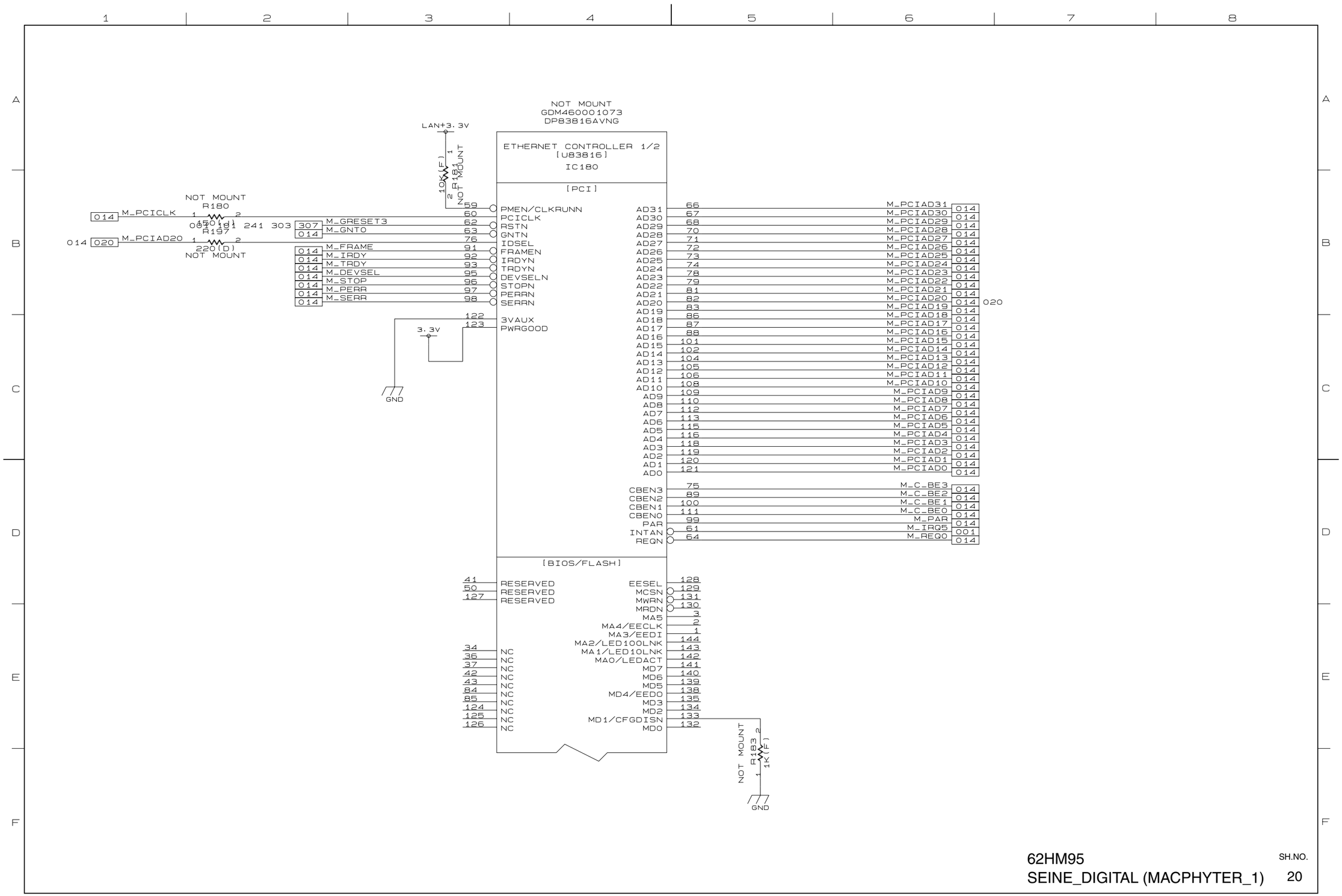
62HM95
SEINE_DIGITAL (MPU_POWER)

SH.NO.
16



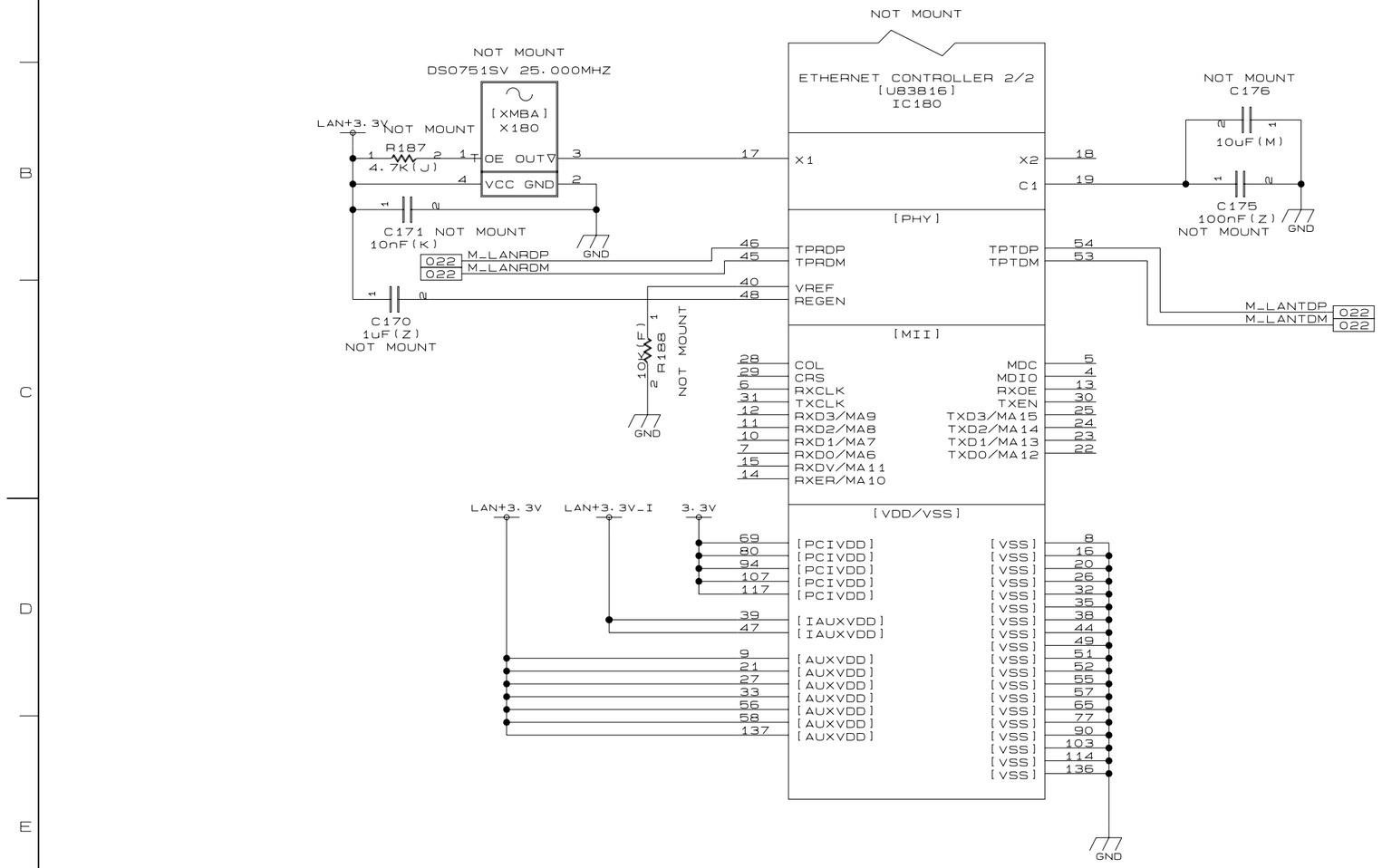
62HM95
SEINE_DIGITAL (Ext_UART)

SH.NO. 17



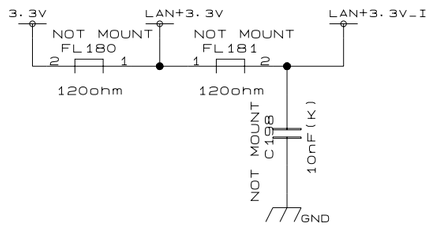
62HM95
SEINE_DIGITAL (MACPHYTER_1)

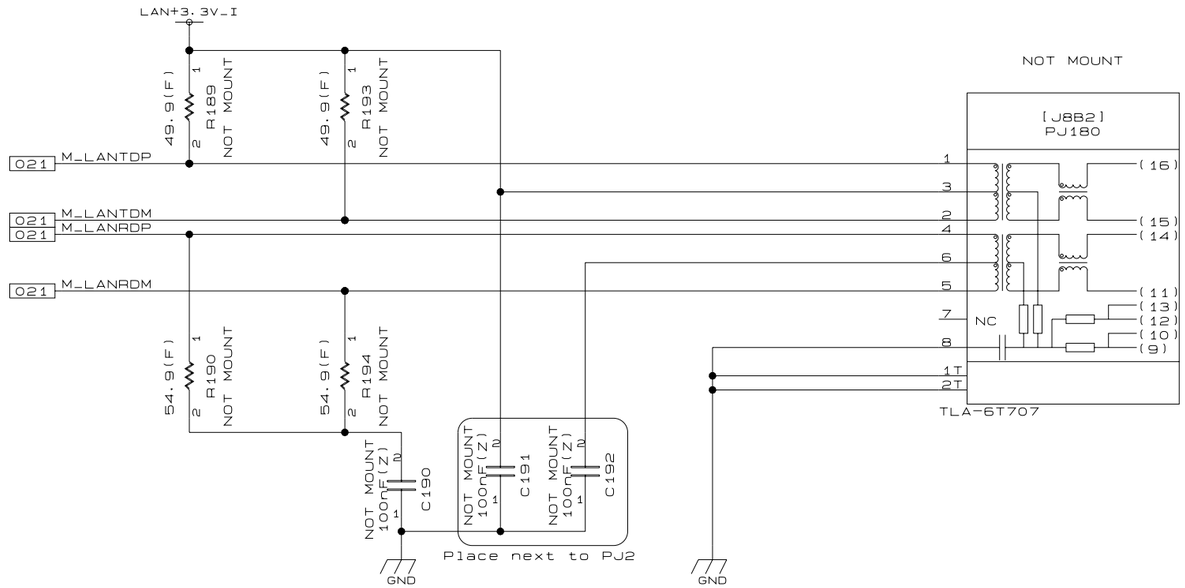
SH.NO. 20



62HM95
SEINE_DIGITAL (MACPHYTER_1)

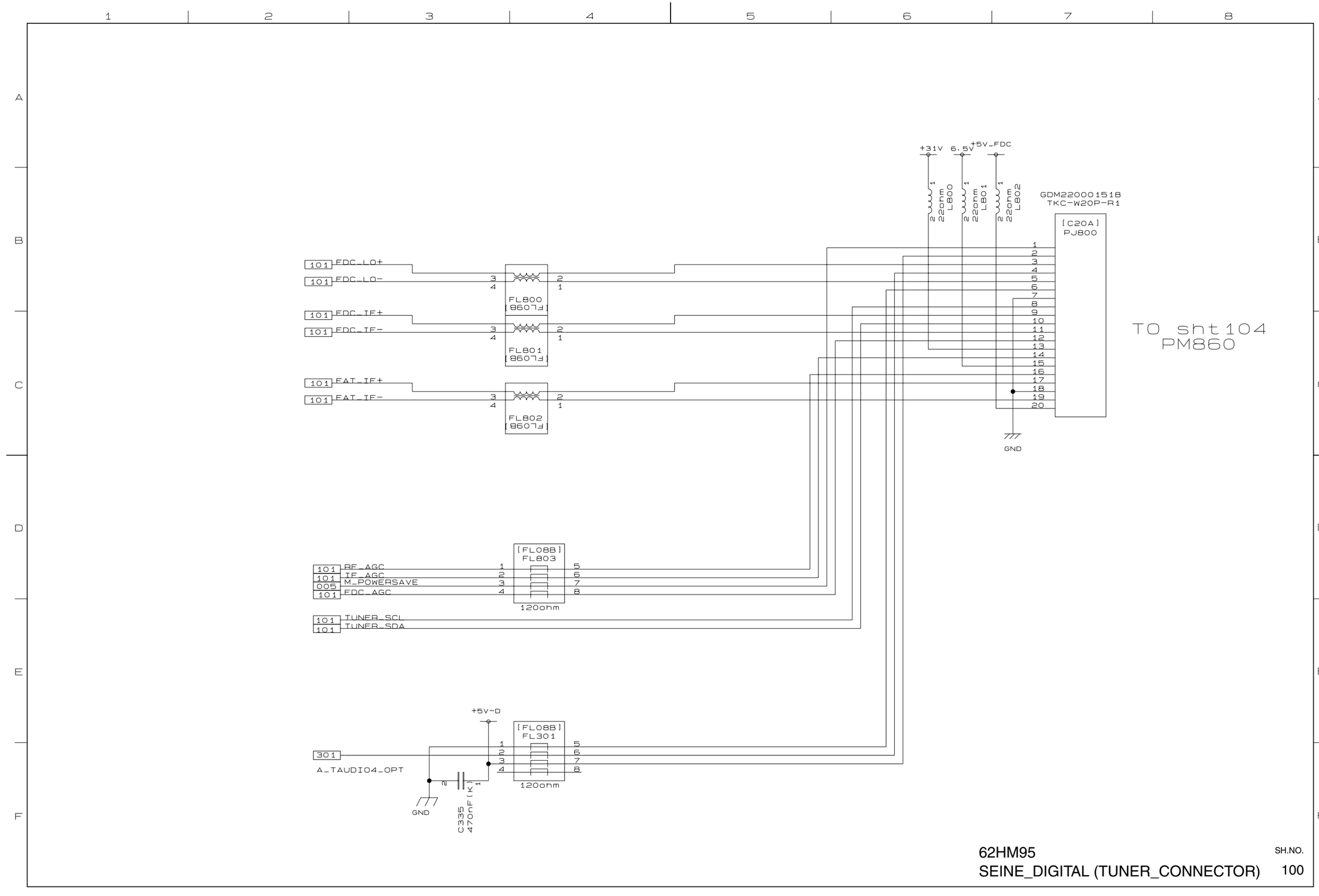
SH.NO. 21





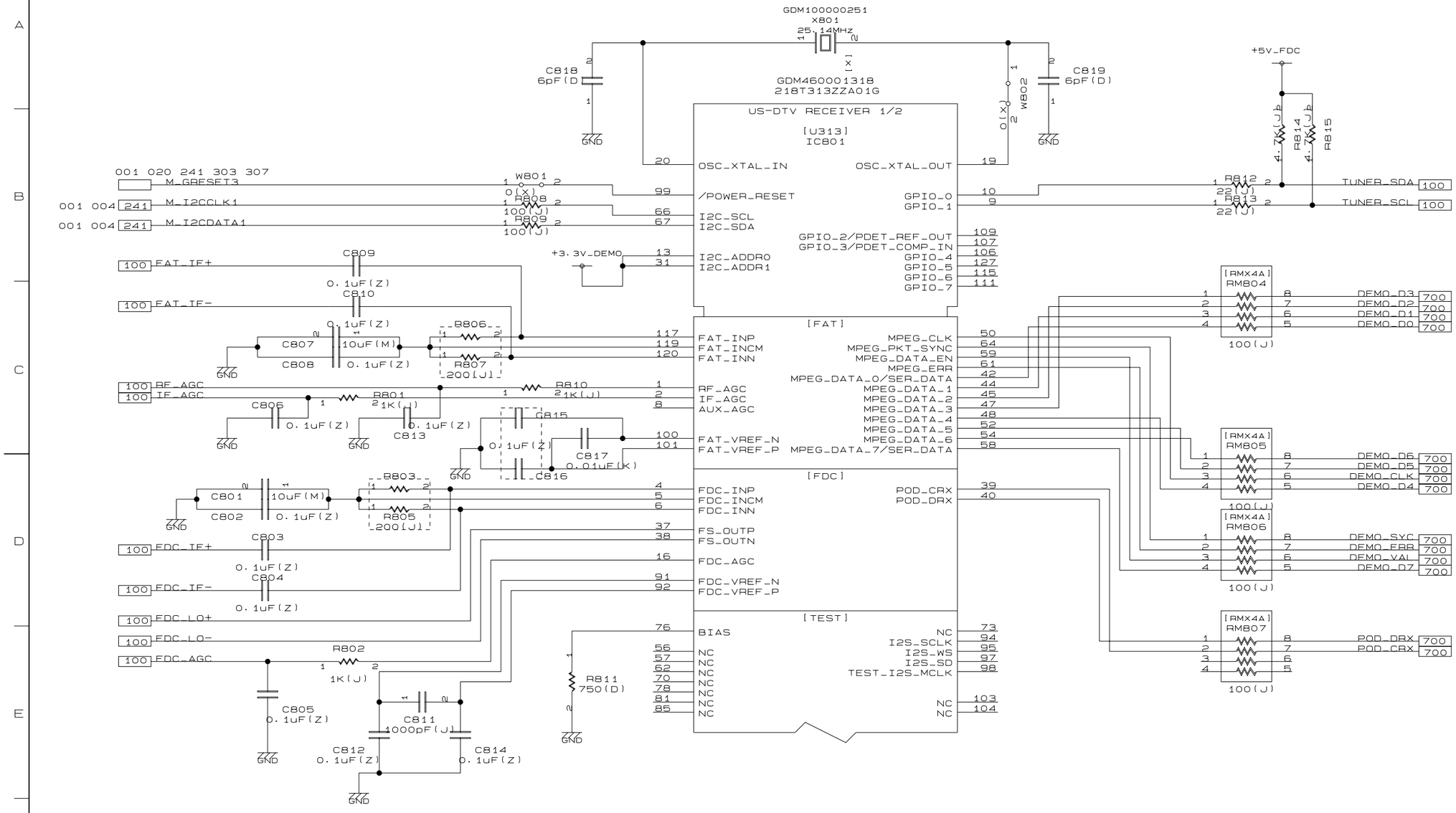
62HM95
SEINE_DIGITAL (RJ45)

SH.NO. 22



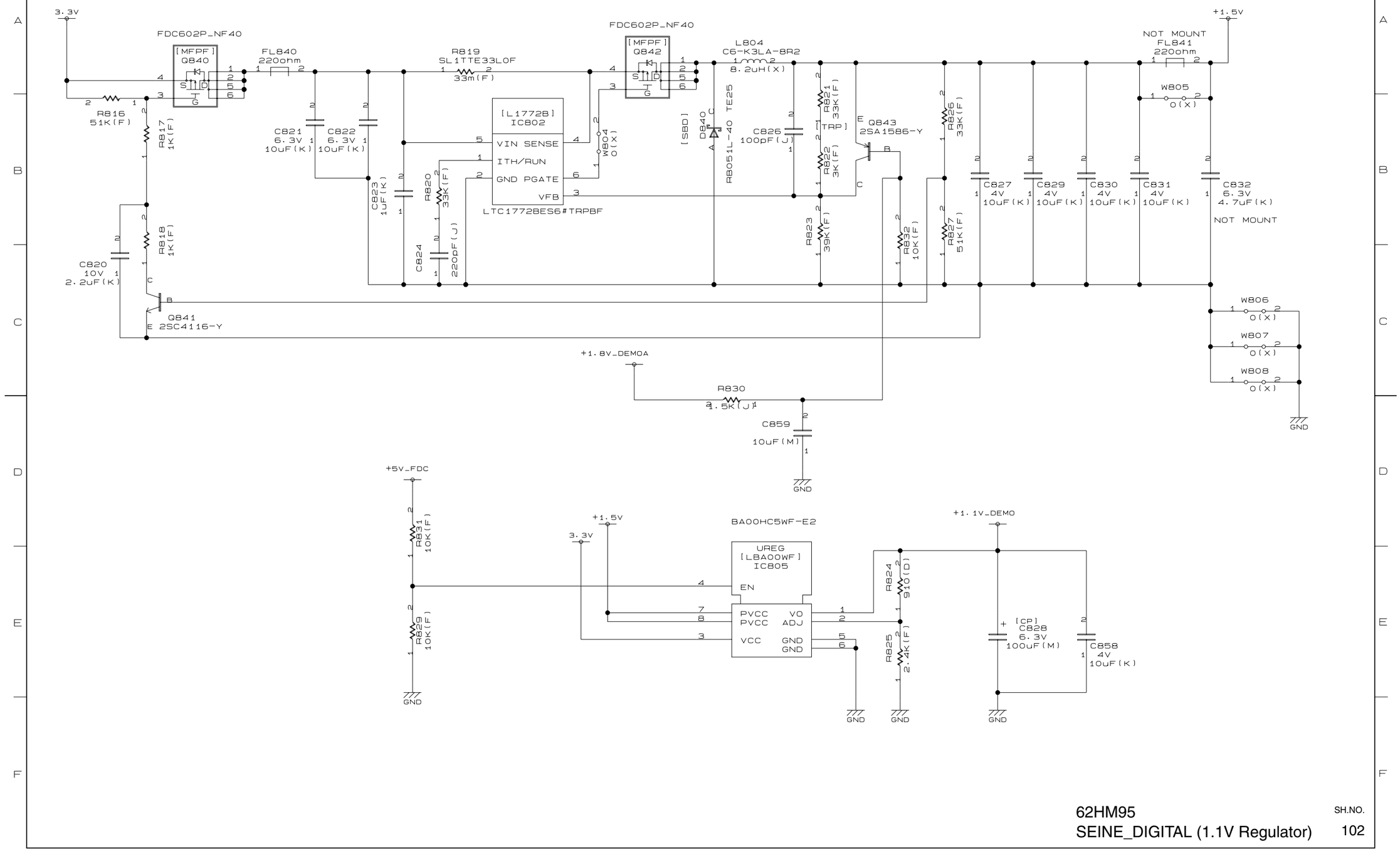
62HM95
SEINE_DIGITAL (TUNER_CONNECTOR)

SH.NO.
100



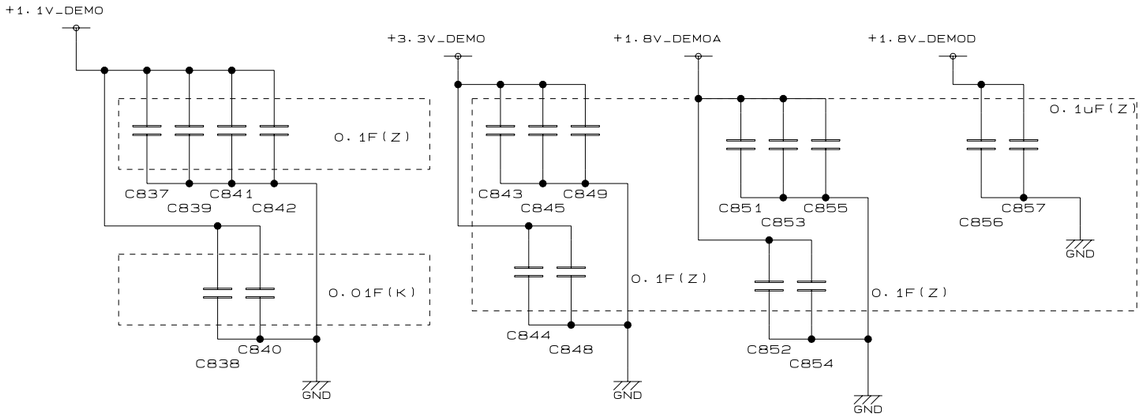
62HM95
SEINE_DIGITAL (T313 (Signal))

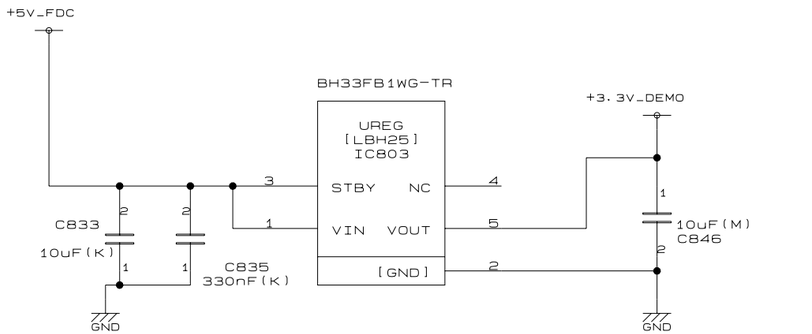
SH.NO.
101

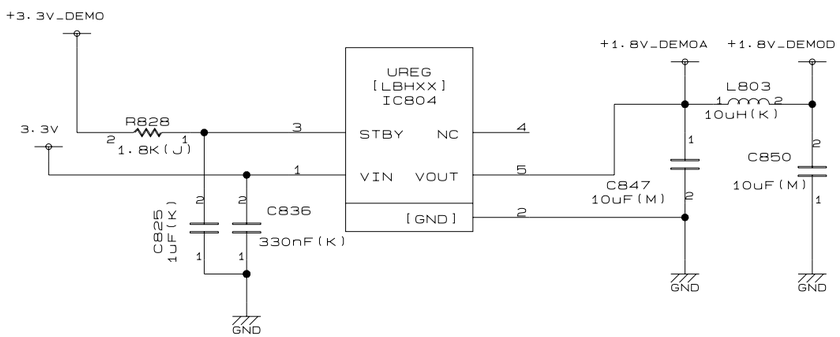


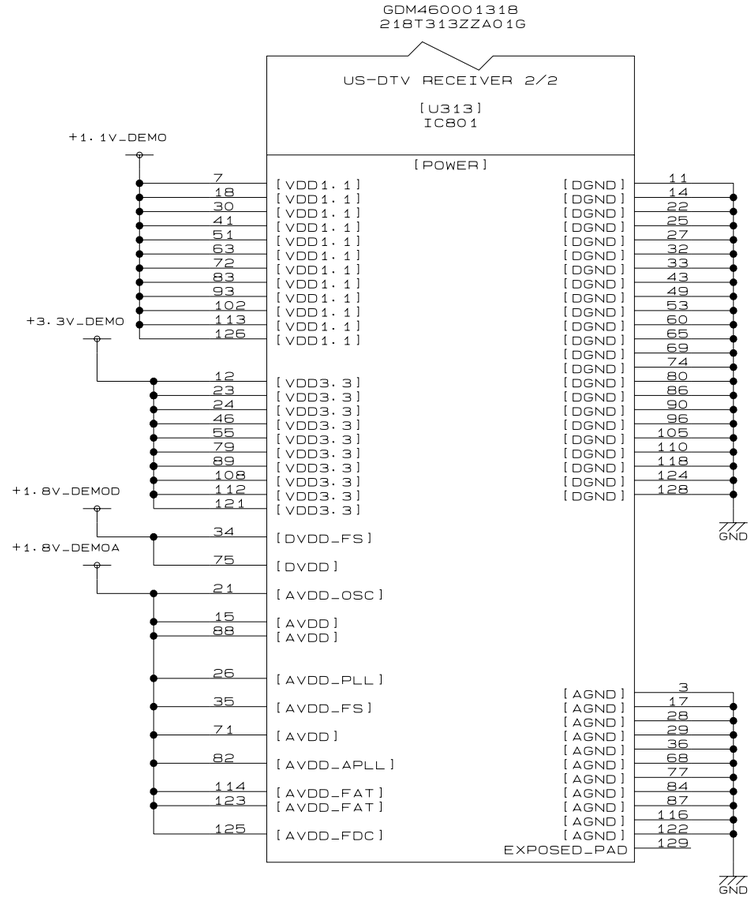
62HM95
SEINE_DIGITAL (1.1V Regulator)

SH.NO.
102



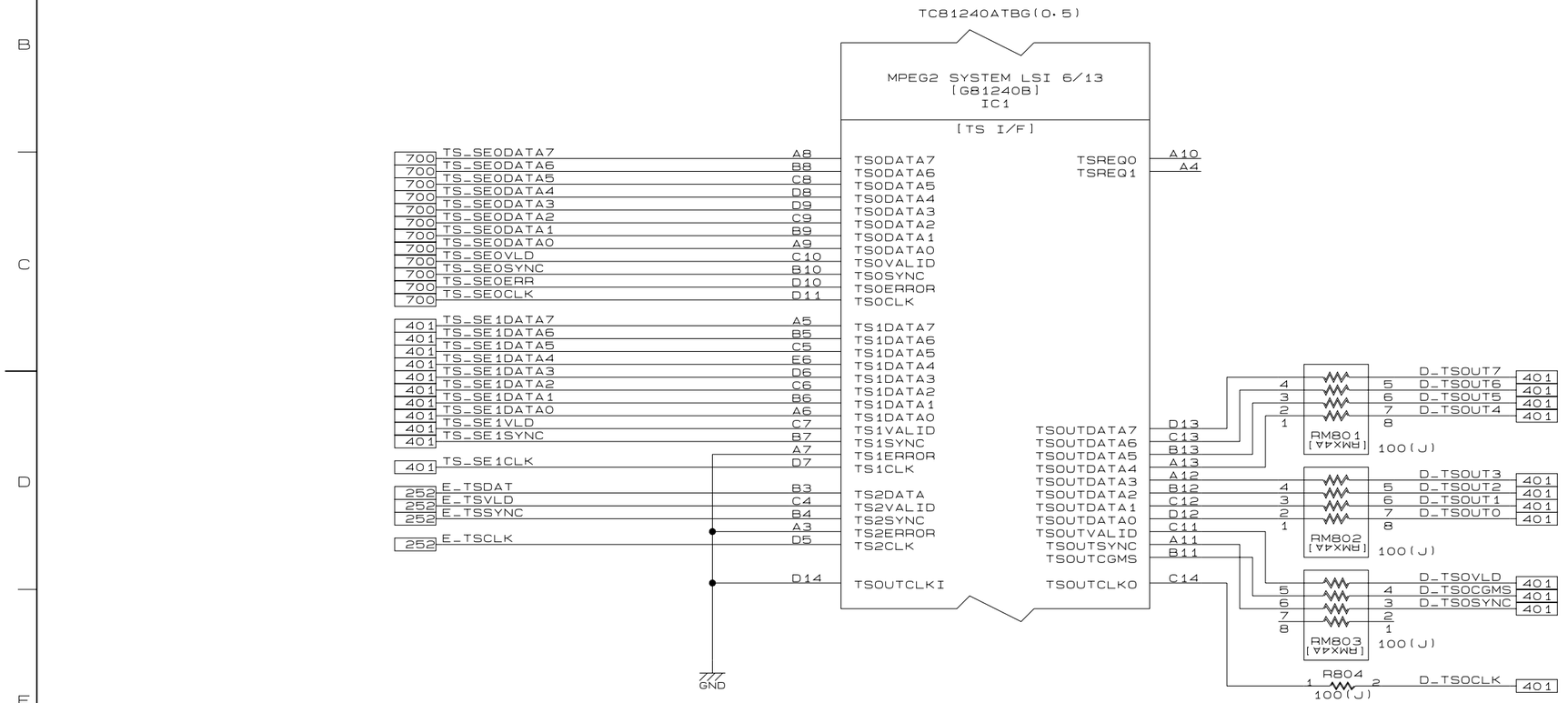






62HM95
SEINE_DIGITAL (T313 (POWER))

SH.NO. 103



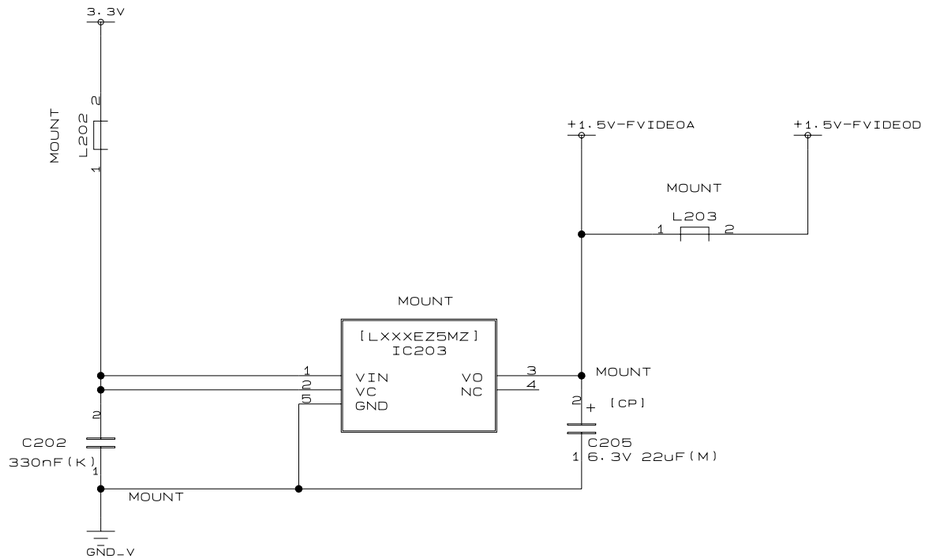
62HM95
SEINE_DIGITAL (SEINE_TS_I/F)

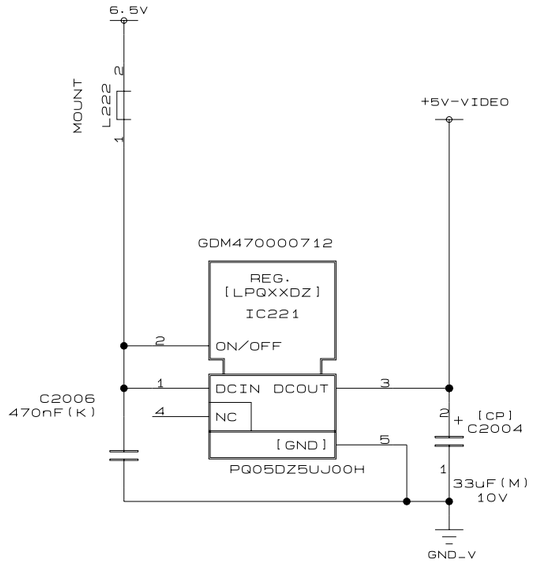
SH.NO.
150

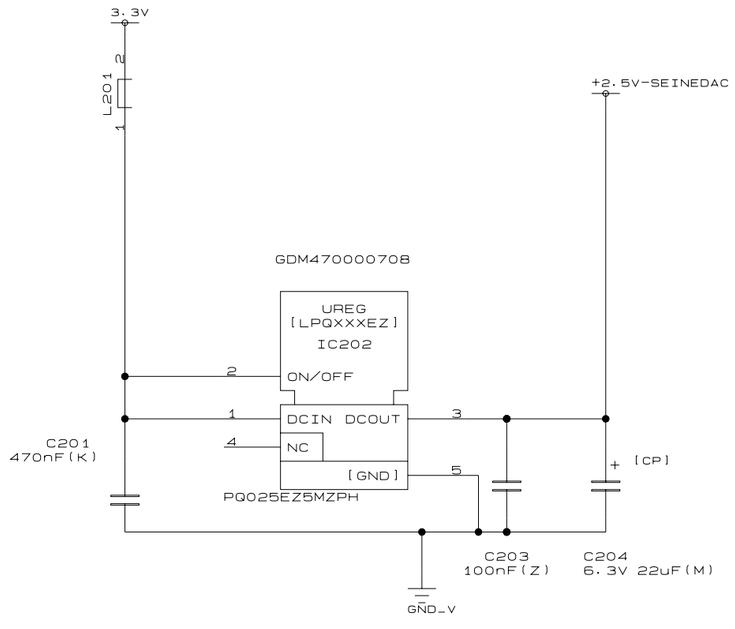


62HM95
SEINE_DIGITAL (SEINE_CAPTURE_IN)

SH.NO.
200

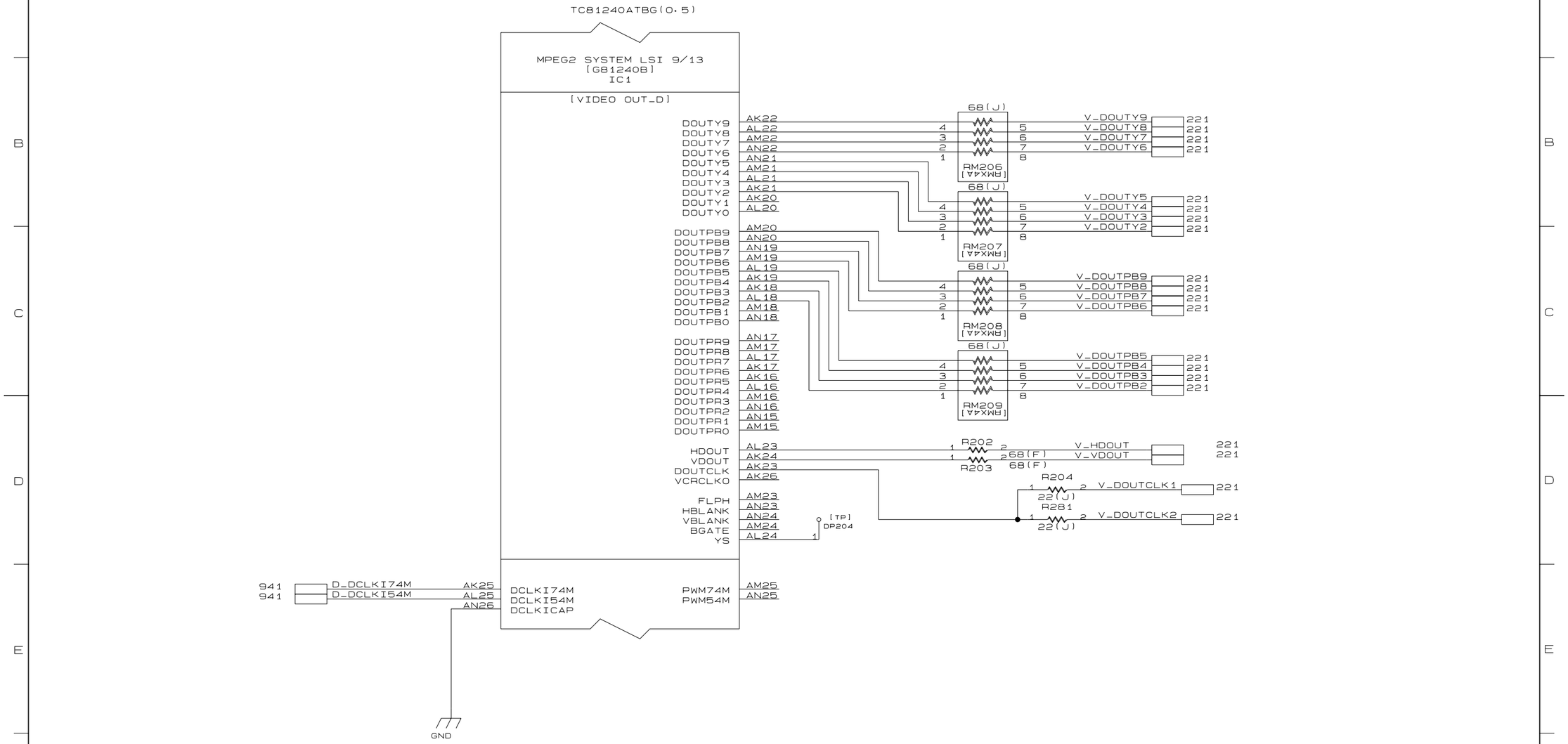






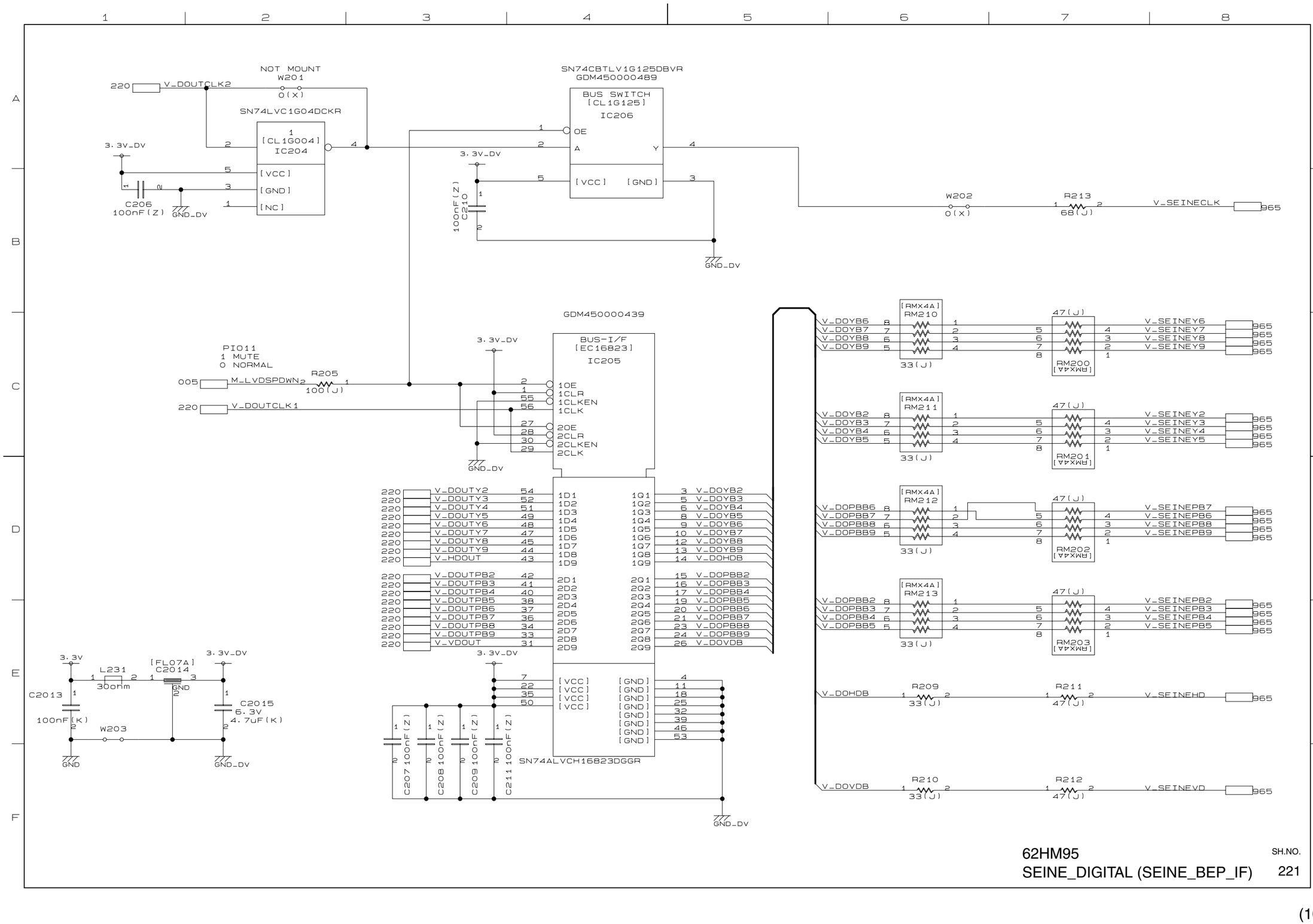
62HM95
SEINE_DIGITAL (VIDEO_POWER)

SH.NO.
210



62HM95
SEINE_DIGITAL (SEINE_DIGITAL_OUT)

SH.NO. 220



62HM95
SEINE_DIGITAL (SEINE_BEP_IF)

SH.NO.
221

TC81240ATBG(0.5)

MPEG2 SYSTEM LSI 10/13
[G81240B]
IC1

[VIDEO OUT_A]

YOUT AE31
PBOUT AF31
PROUT AG31

VCRYOUT AA31
VCRCOUT AB31
VCRCVOUT AC31

YNEG AE32
PBNEG AF32
PRNEG AG32

VCRYNEG AA32
VCRCNEG AB32
VCRCVNEG AC32

HSYNC AL28
VSYNC AM28
FASTBLK AK28
CSYNC1 AN27
CSYNC0 AN28

FSADJ_HD AE33
FSADJ_VCR AA33
VBS_HD AF33
VBS_VCR AB33
VREF_HD AG33
VREF_VCR AC33

AD29 DPVD_HD
AA29 DPVD_VCR
AD30 APVD_HD1
AE30 APVD_HD2
AF30 APVD_HD3
AA30 APVD_VCR1
AB30 APVD_VCR2
AC30 APVD_VCR3

DPVS_HD AE29
DPVS_VCR AB29
APVS_HD AF29
APVS_VCR AC29

+2.5V-SEINEDAC

C227 100nF(Z)
C228 100nF(Z)
C229 100nF(Z)
C231 10nF(K)
C233 10nF(K)
C234 10nF(K)

C235 100nF(Z)
C236 100nF(Z)
C237 100nF(Z)
R218 300(F)
C238 100nF(Z)
R219 300(F)
C239 100nF(Z)
C240 100nF(Z)

V_YOUT 227
V_PBOUT 227
V_PROUT 227
75(F) R223
75(F) R230
75(F) R237

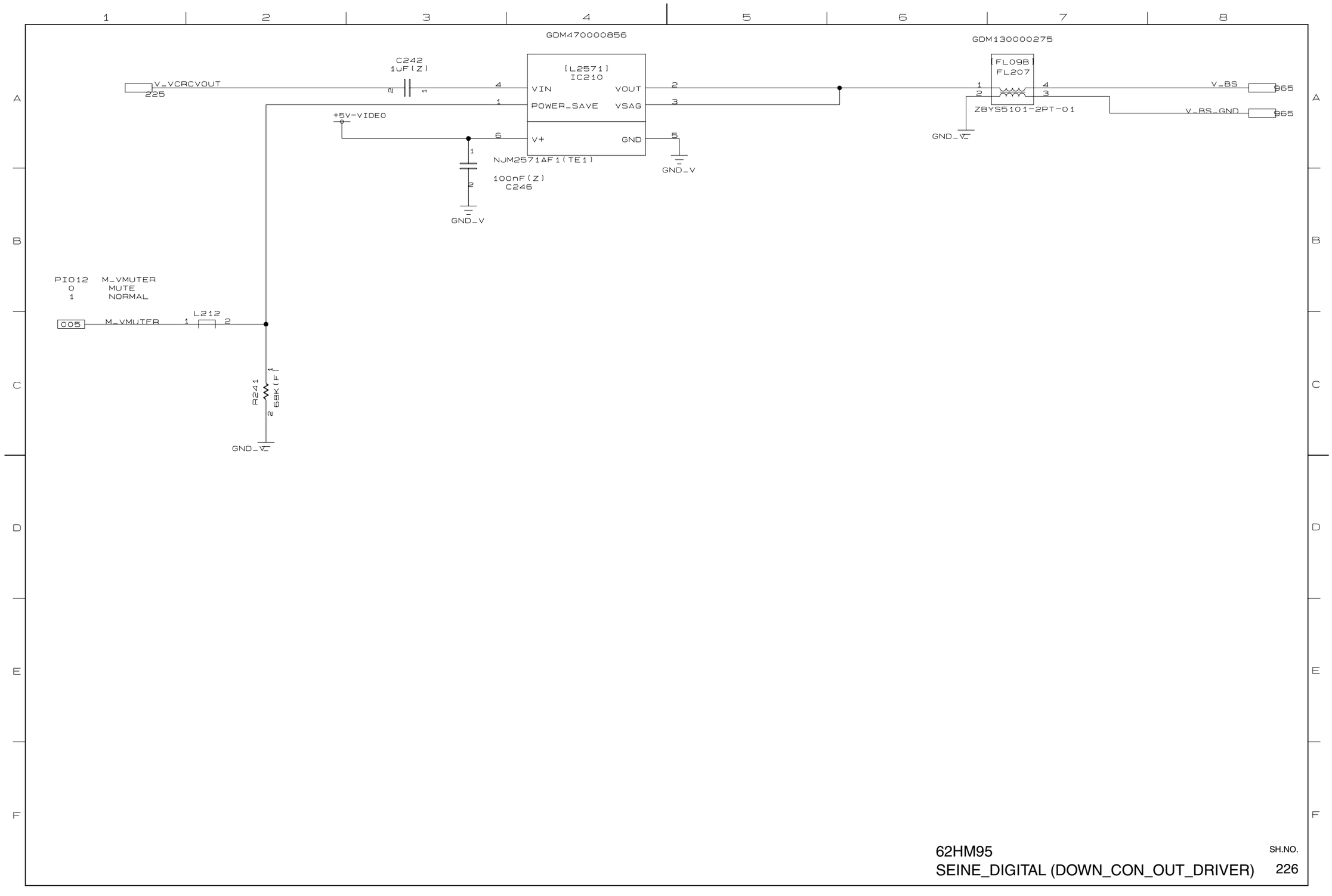
V_VCRCVOUT 226
75(F) R220
68(F) R224
75(F) R227
68(F) R231
75(F) R234
68(F) R238

[RMX4A] RM238
[RMX4A] RM237
[RMX4A] RM236

GND_V

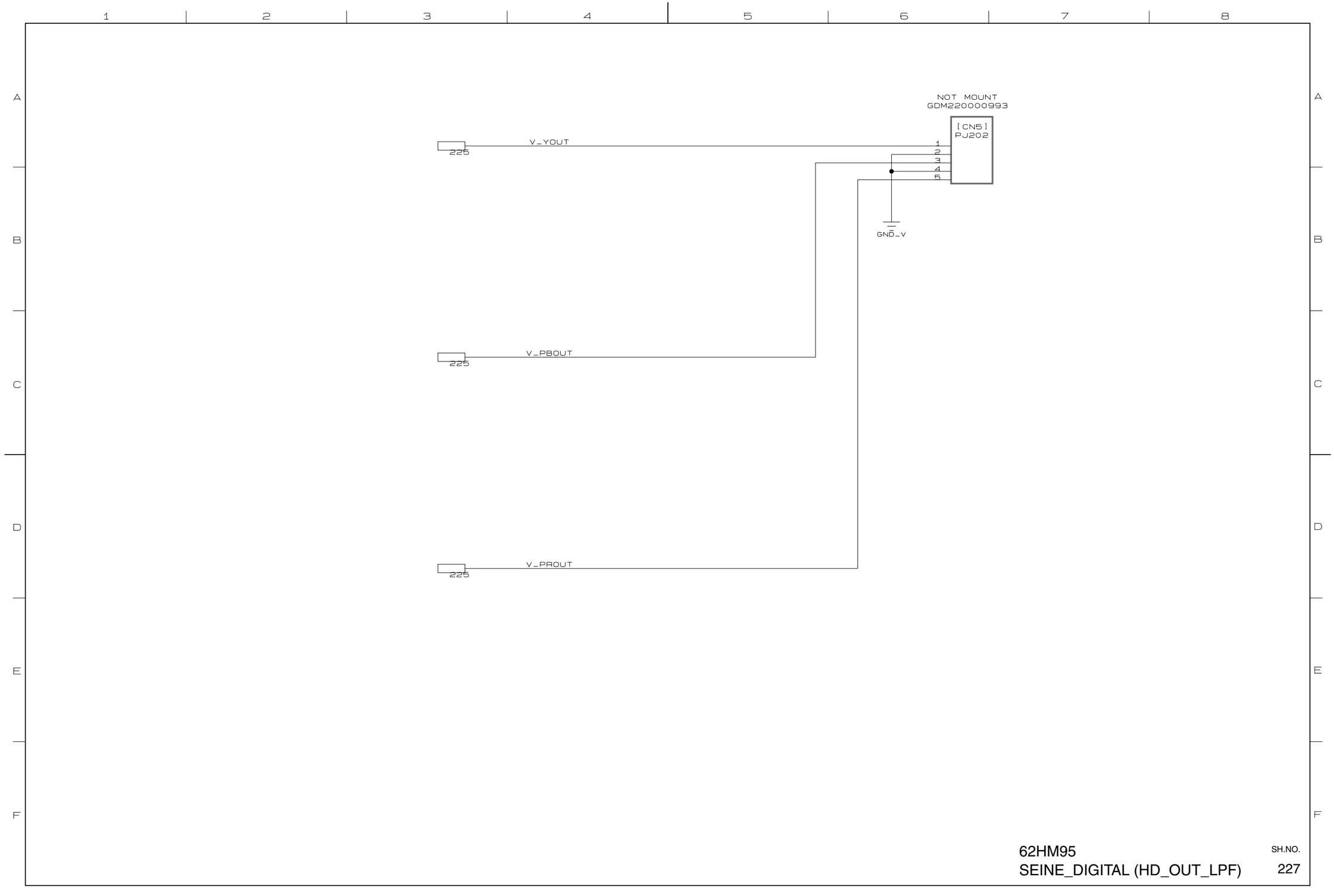
62HM95
SEINE_DIGITAL (DAC_OUT)

SH.NO.
225



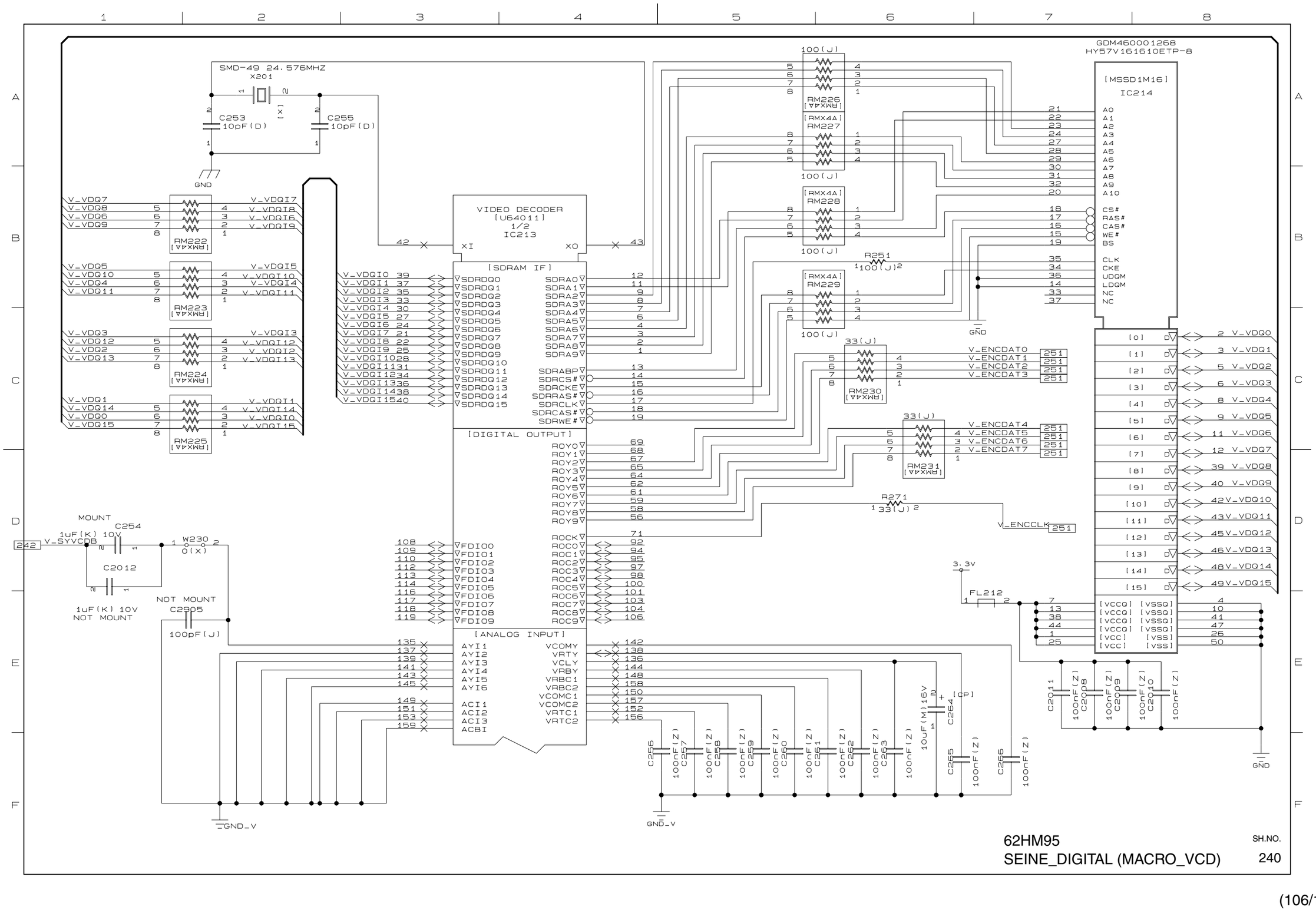
62HM95
SEINE_DIGITAL (DOWN_CON_OUT_DRIVER)

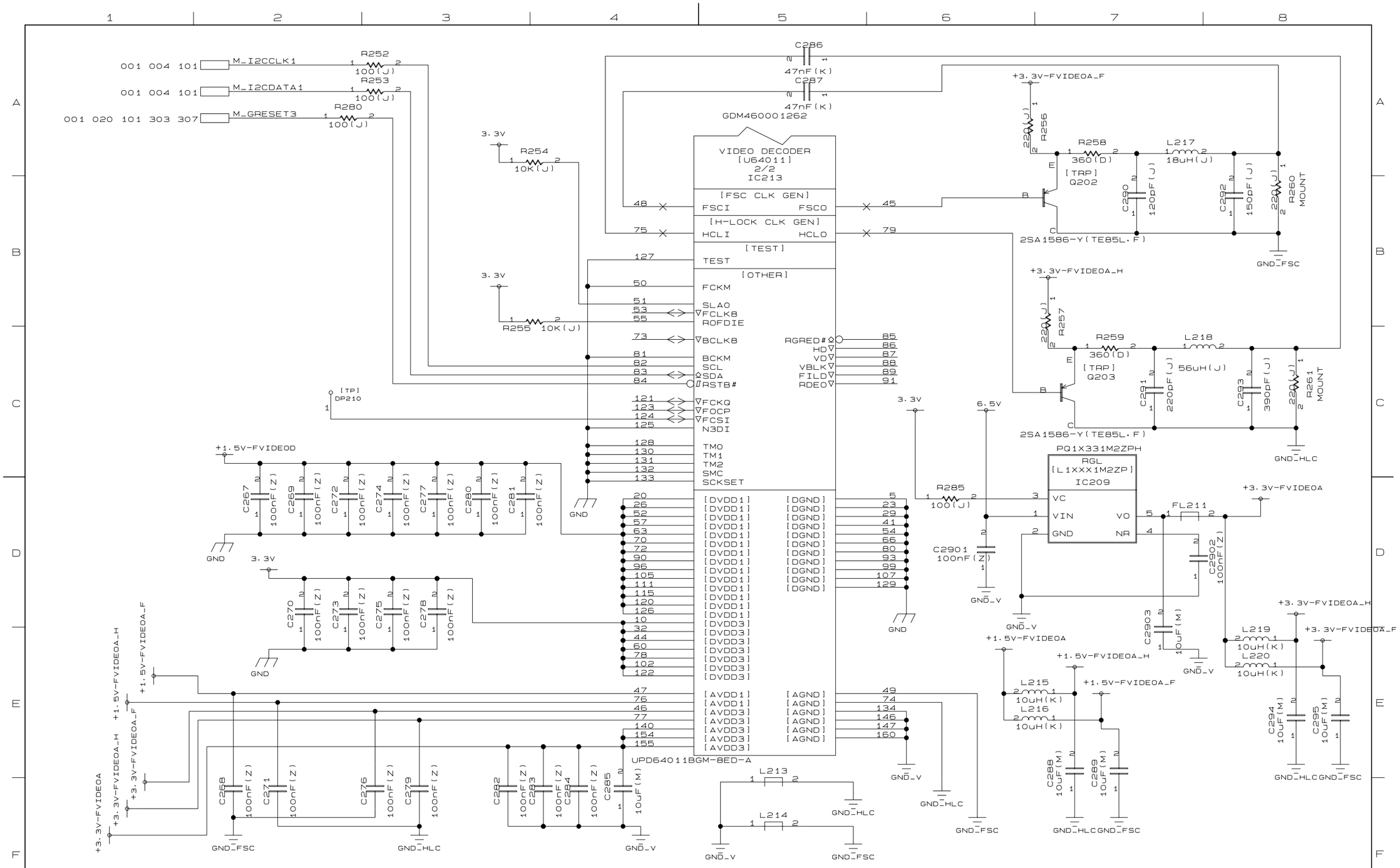
SH.NO.
226

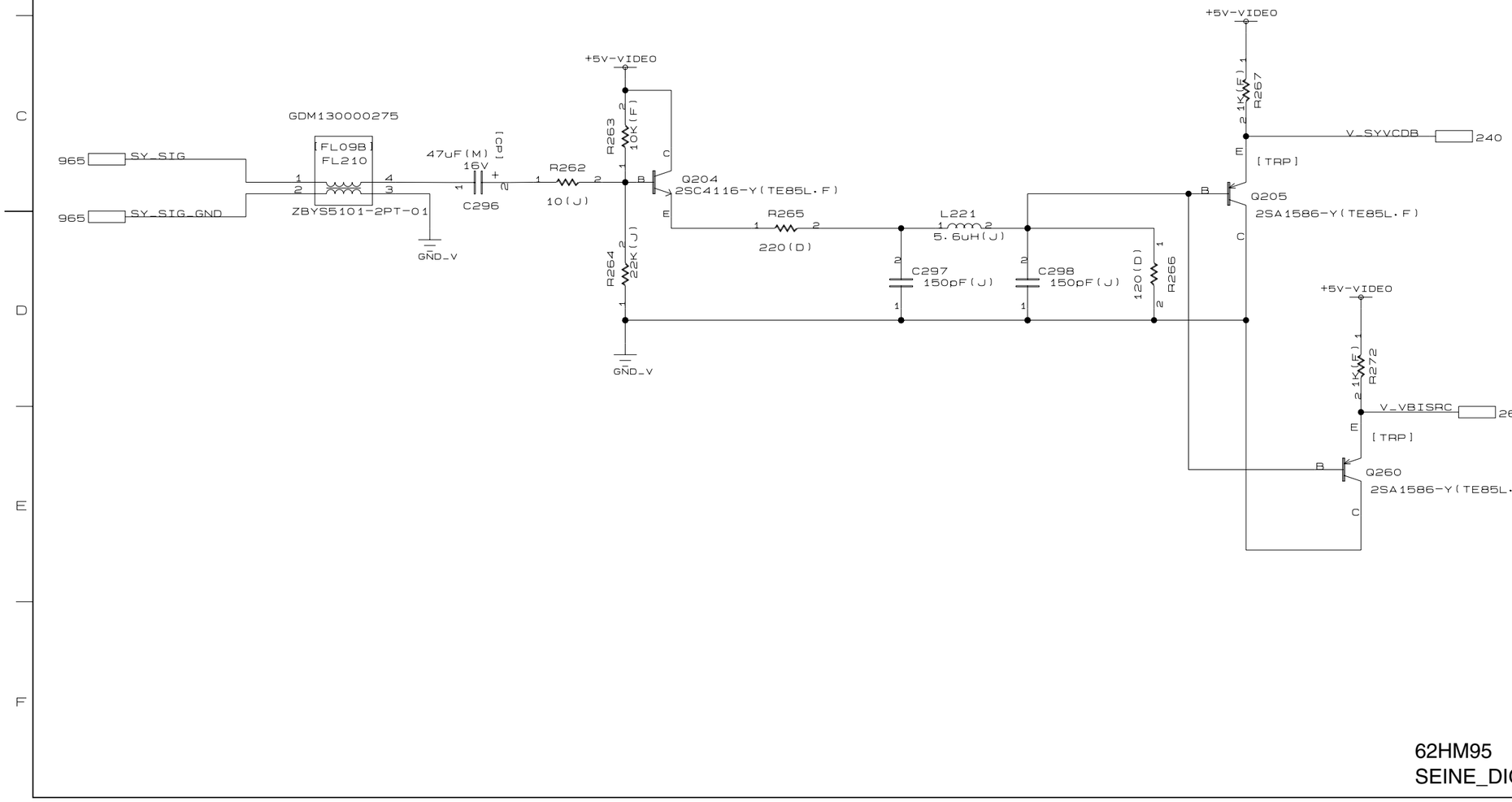


62HM95
SEINE_DIGITAL (HD_OUT_LPF)

SH.NO.
227


GDM460001268
HY57V161610ETP-8
SMD-49 24.576MHZ
X201
C253
10pF(D)
C255
10pF(D)
GND
VIDEO DECODER
[U64011]
1/2
IC213
XI
XO
42
43
[SDRAM IF]
[DIGITAL OUTPUT]
[ANALOG INPUT]
[MSSD1M16]
IC214
RM222
RM223
RM224
RM225
RM226
RM227
RM228
RM229
RM230
RM231
R251
R271
33(J)
100(J)
V_ENCDAT0
V_ENCDAT1
V_ENCDAT2
V_ENCDAT3
V_ENCDAT4
V_ENCDAT5
V_ENCDAT6
V_ENCDAT7
V_ENCCLK
MOUNT
C254
1uF(K) 10V
V_SYVCDB
242
W230
0(X)
C2012
1uF(K) 10V
NOT MOUNT
NOT MOUNT
C2905
100pF(J)
GND_V
3.3V
FL212
C264
10uF(M)16V
C2011
C2008
C2009
C2010
100nF(Z)
C256
C257
C258
C259
C260
C261
C262
C263
C265
C266
62HM95
SEINE_DIGITAL (MACRO_VCD)
SH.NO.
240


001 004 101 M_I2CCLK1
001 004 101 M_I2CDATA1
001 020 101 303 307 M_GRESET3
R252 100(J)
R253 100(J)
R280 100(J)
C286 47nF(K)
C287 47nF(K)
GDM460001262
3.3V
R254 10K(J)
R255 10K(J)
VIDEO DECODER
[U64011]
2/2
IC213
[FSC CLK GEN]
FSCI
FSCO
[H-LOCK CLK GEN]
HCLI
HCLO
[TEST]
TEST
[OTHER]
FCKM
SLAO
FCLK8
ROFDIE
BCLK8
BCKM
SCL
SDA
RSTB#
FCKQ
FOCP
FCSI
N3DI
TMO
TM1
TM2
SMC
SCKSET
[DVDD1]
[DVDD3]
[DGND]
[AVDD1]
[AVDD3]
[AGND]
UPD64011BGM-8ED-A
RGRED#
HD
VD
VBLK
FILD
RDEO
[TP] DP210
+1.5V-FVIDEOD
+1.5V-FVIDEOA_F
+1.5V-FVIDEOA_H
+1.5V-FVIDEOA
+3.3V-FVIDEOA_F
+3.3V-FVIDEOA_H
+3.3V-FVIDEOA
+3.3V-FVIDEOA
6.5V
GND
GND_V
GND_FSC
GND_HLC
C267 100nF(Z)
C269 100nF(Z)
C272 100nF(Z)
C274 100nF(Z)
C277 100nF(Z)
C280 100nF(Z)
C281 100nF(Z)
C270 100nF(Z)
C273 100nF(Z)
C275 100nF(Z)
C278 100nF(Z)
C268 100nF(Z)
C271 100nF(Z)
C276 100nF(Z)
C279 100nF(Z)
C282 100nF(Z)
C283 100nF(Z)
C284 100nF(Z)
C285 10uF(M)
L213
L214
R285 100(J)
C2901 100nF(Z)
C2902 100nF(Z)
C2903 10uF(M)
FL211
PQ1X331M2ZPH
RGL
[L1XXX1M2ZP]
IC209
VC
VIN
GND
VO
NR
R256 220(J)
R257 220(J)
R258 360(D)
R259 360(D)
L217 18uH(J)
L218 56uH(J)
[TRP] Q202
[TRP] Q203
2SA1586-Y(TE85L.F)
C290 120pF(J)
C291 220pF(J)
C292 150pF(J)
C293 390pF(J)
R260 220(J) MOUNT
R261 220(J) MOUNT
L219 10uH(K)
L220 10uH(K)
L215 10uH(K)
L216 10uH(K)
C288 10uF(M)
C289 10uF(M)
C294 10uF(M)
C295 10uF(M)
62HM95
SEINE_DIGITAL (MACRO_VCD)
SH.NO.
241



62HM95
SEINE_DIGITAL (VIDEO_LPF)

SH.NO.
242

GDM460001099
UPD61052GD-LML-A

uPD61052 1/4
[U61052]
IC255

[Clock and Reset]

SCLK
STCLK
PSTOP
RESET
PWM

[Host CPU Interface]

CA0/FA0
CA1/FA1
CA2/FA2
CA3/FA3
CA4/FA4
CA5/FA5

CD0/FD0
CD1/FD1
CD2/FD2
CD3/FD3
CD4/FD4
CD5/FD5
CD6/FD6
CD7/FD7

CCS
CWE/CSDI
CRE

CWAIT/FOE
CINT

CMODE0/CSCLK
CMODE1/CSDO
CMODE2

[SDRAM Interface]

MD0
MD1
MD2
MD3
MD4
MD5
MD6
MD7
MD8
MD9
MD10
MD11
MD12
MD13
MD14
MD15
MD16
MD17
MD18
MD19
MD20
MD21
MD22
MD23
MD24
MD25
MD26
MD27
MD28
MD29
MD30
MD31

MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
MA12
MA13

MCS
MRAS
MCAS
MWE
MDQM

MCLKE
MCLK

E_27MCLK_VCX0
3.3V
R2508
10K(F)
E_PSTOP
E_RESET

M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6

M_SBD8
M_SBD9
M_SBD10
M_SBD11
M_SBD12
M_SBD13
M_SBD14
M_SBD15

E_ENCCE
E_ENCWE
E_ENCOE

R2502
100(J)
E_ENCINT

RM258 [RMX4A] 10K(J)

RM250 [RMX4A]
RM251 [RMX4A]
RM252 [RMX4A]
RM253 [RMX4A]
RM254 [RMX4A]
RM255 [RMX4A]
RM256 [RMX4A]
RM257 [RMX4A]

すべて100Ω

RM259 [RMX4A]
RM260 [RMX4A]
RM261 [RMX4A]
RM262 [RMX4A]
RM263 [RMX4A]

R2503

すべて100Ω

GDM460001215
EDS6432AFTA-6B-E

SDRAM 64Mbit
[MSSD2M32]
IC250

Elpida:EDS6432AFTA

A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
BS0
BS1
CLK
CKE
CSZ
RASZ
CASZ
WEZ
DQMO
DQM1
DQM2
DQM3

DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
DQ16
DQ17
DQ18
DQ19
DQ20
DQ21
DQ22
DQ23
DQ24
DQ25
DQ26
DQ27
DQ28
DQ29
DQ30
DQ31

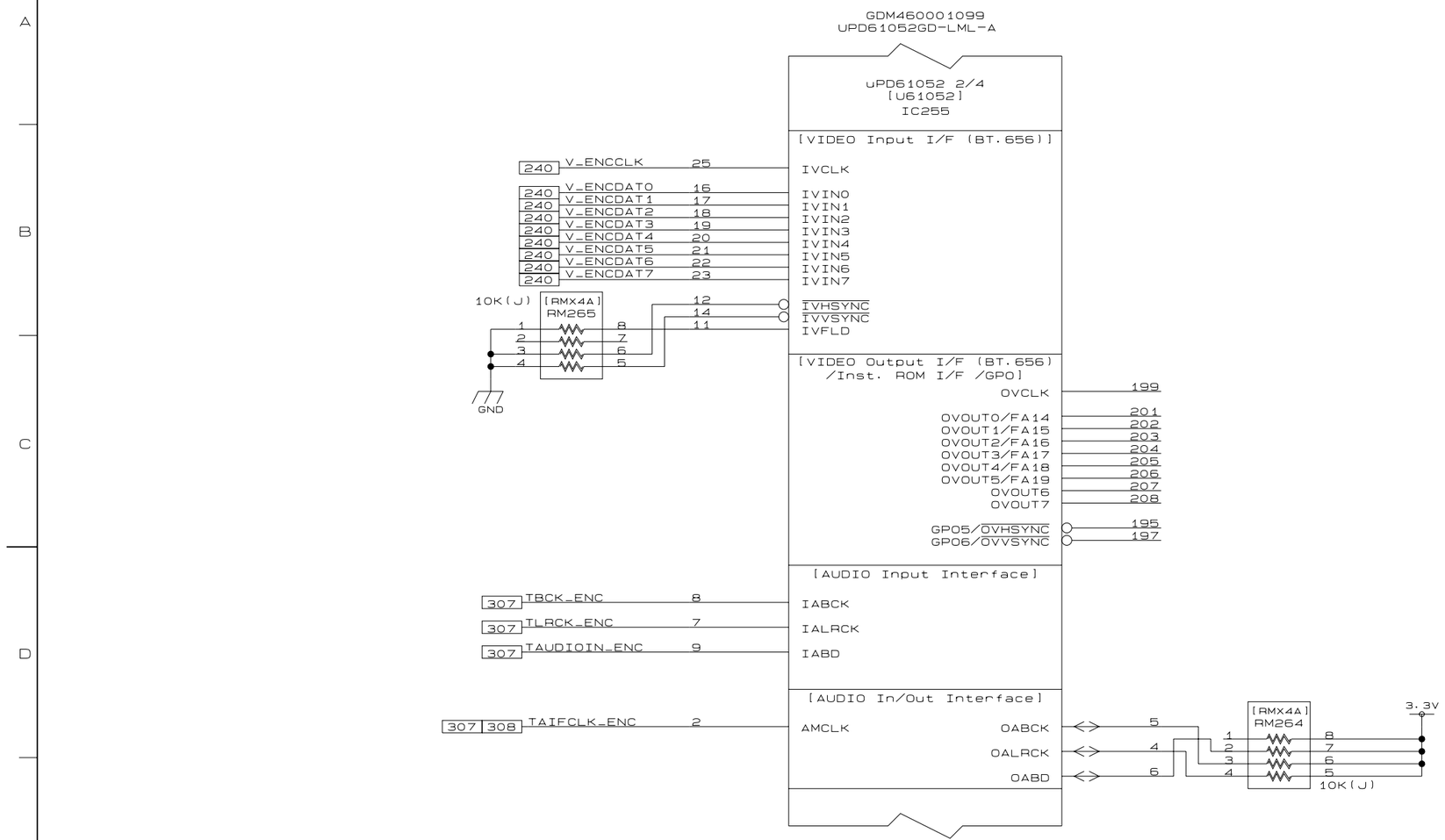
V_MEAD0
V_MEAD1
V_MEAD2
V_MEAD3
V_MEAD4
V_MEAD5
V_MEAD6
V_MEAD7
V_MEAD8
V_MEAD9
V_MEAD10
V_MEAD11
V_MEAD12
V_MEAD13
V_MECKE
V_MECS
V_MERAS
V_MECAS
V_MEWE
V_MEDQM
V_MECLK

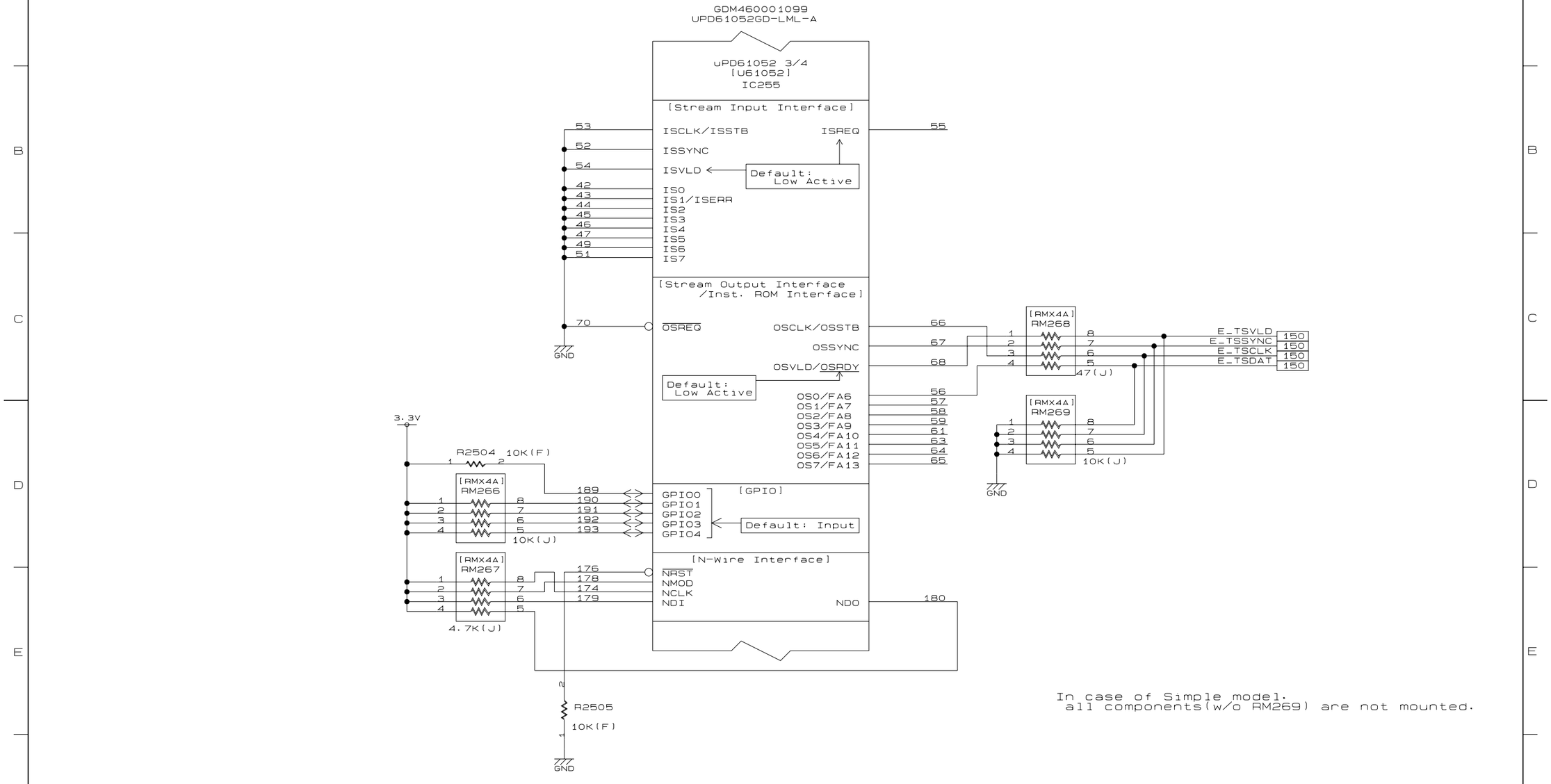
V_MEDQ0
V_MEDQ1
V_MEDQ2
V_MEDQ3
V_MEDQ4
V_MEDQ5
V_MEDQ6
V_MEDQ7
V_MEDQ8
V_MEDQ9
V_MEDQ10
V_MEDQ11
V_MEDQ12
V_MEDQ13
V_MEDQ14
V_MEDQ15
V_MEDQ16
V_MEDQ17
V_MEDQ18
V_MEDQ19
V_MEDQ20
V_MEDQ21
V_MEDQ22
V_MEDQ23
V_MEDQ24
V_MEDQ25
V_MEDQ26
V_MEDQ27
V_MEDQ28
V_MEDQ29
V_MEDQ30
V_MEDQ31

[Vcc] [Vss]
VccQ VssQ
N.C

62HM95
SEINE_DIGITAL (MPEG_Enc. (CLK_SDRAM))

SH.NO.
250

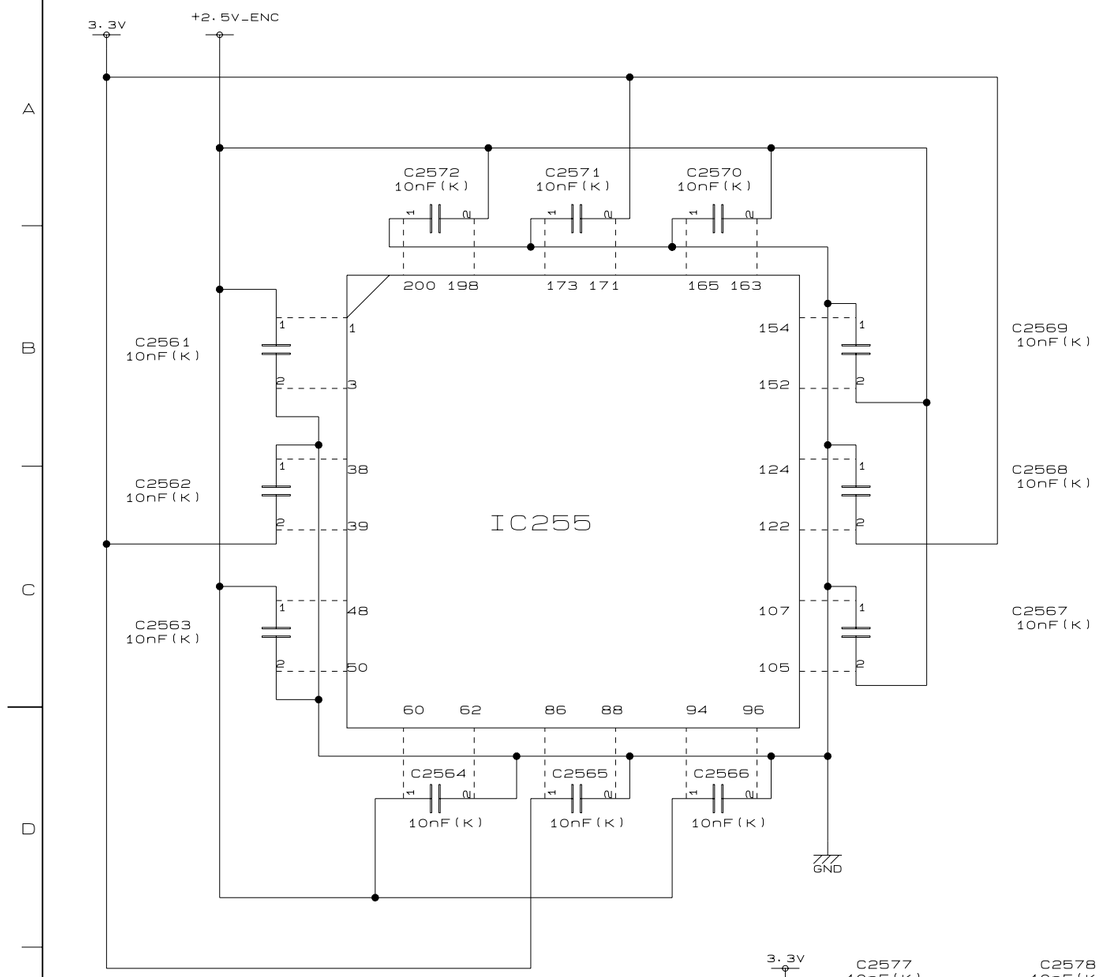

GDM460001099
UPD61052GD-LML-A
uPD61052 2/4
[U61052]
IC255
[VIDEO Input I/F (BT.656)]
IVCLK
IVIN0
IVIN1
IVIN2
IVIN3
IVIN4
IVIN5
IVIN6
IVIN7
IVHSYNC
IVVSYNC
IVFLD
[VIDEO Output I/F (BT.656)
/Inst. ROM I/F /GPO]
OVCLK
OVOUT0/FA14
OVOUT1/FA15
OVOUT2/FA16
OVOUT3/FA17
OVOUT4/FA18
OVOUT5/FA19
OVOUT6
OVOUT7
GP05/OVHSYNC
GP06/OVVSYNC
[AUDIO Input Interface]
IABCK
IALRCK
IABD
[AUDIO In/Out Interface]
AMCLK
OABCK
OALRCK
OABD
240 V_ENCCLK 25
240 V_ENCDAT0 16
240 V_ENCDAT1 17
240 V_ENCDAT2 18
240 V_ENCDAT3 19
240 V_ENCDAT4 20
240 V_ENCDAT5 21
240 V_ENCDAT6 22
240 V_ENCDAT7 23
10K(J) [RMX4A] RM265
12
14
11
GND
199
201
202
203
204
205
206
207
208
195
197
307 TBCK_ENC 8
307 TLRCK_ENC 7
307 TAUDIOIN_ENC 9
307 308 TAIFCLK_ENC 2
5
4
6
[RMX4A] RM264
3.3V
10K(J)
In case of Simple model.
all components are not mounted.
62HM95
SEINE_DIGITAL (MPEG_Enc. (AV_I/F))
SH.NO.
251

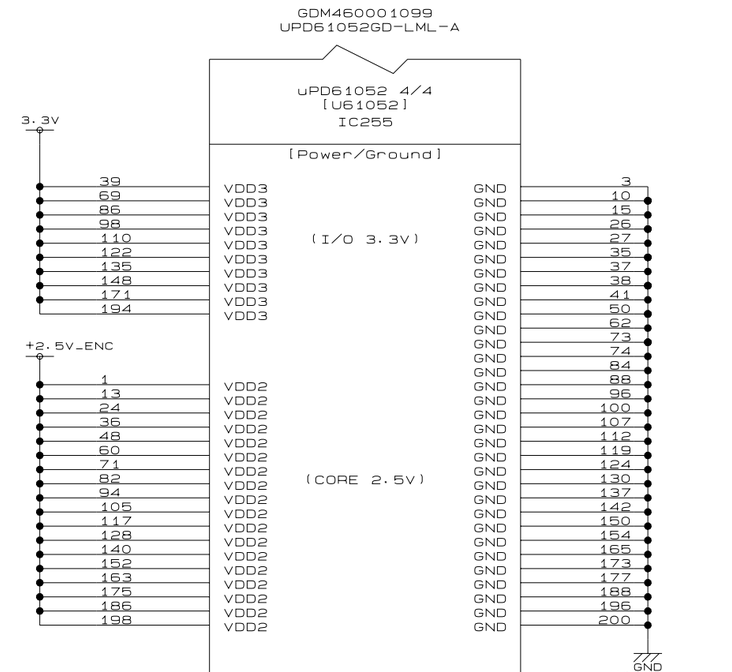


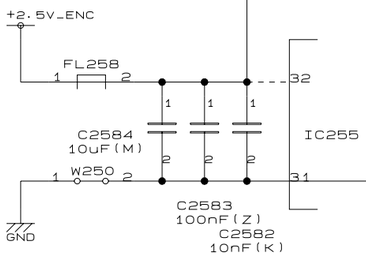
In case of Simple model.
all components(w/o RM269) are not mounted.

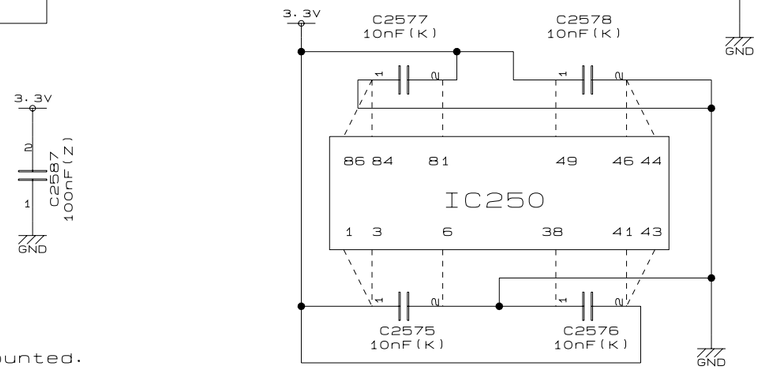
62HM95
SEINE_DIGITAL (MPEG_Enc. (STREAM_I/F))

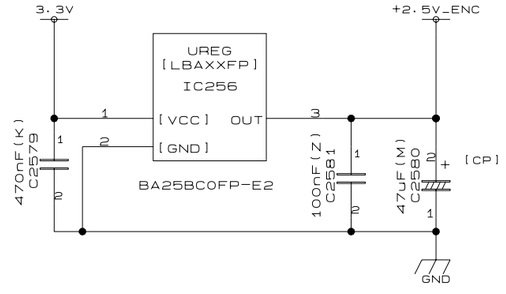
SH.NO.
252







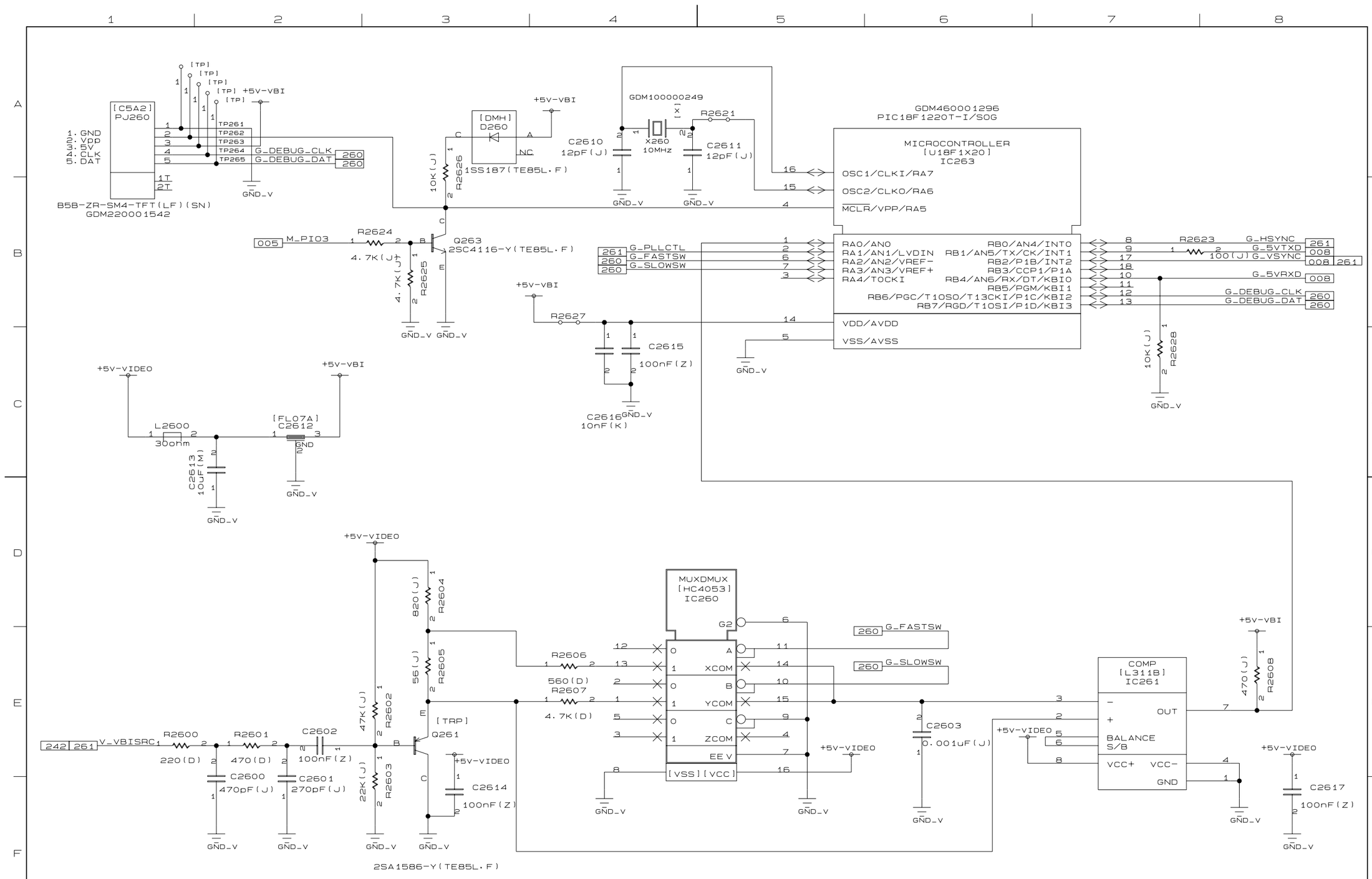




In case of Simple model.
all components are not mounted.

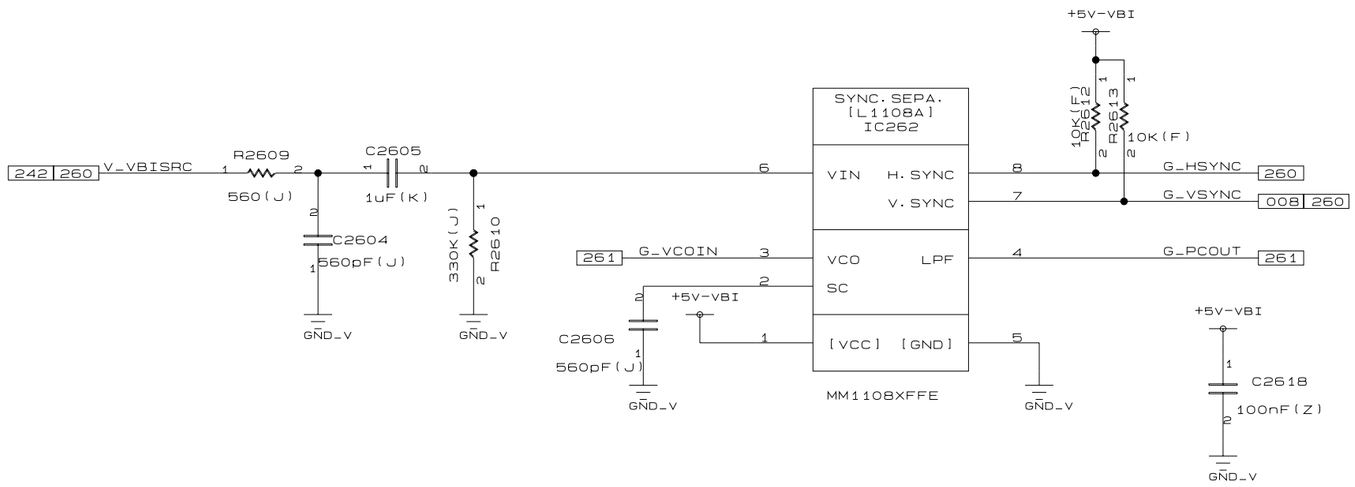
62HM95
SEINE_DIGITAL (MPEG_Enc. (POWER))

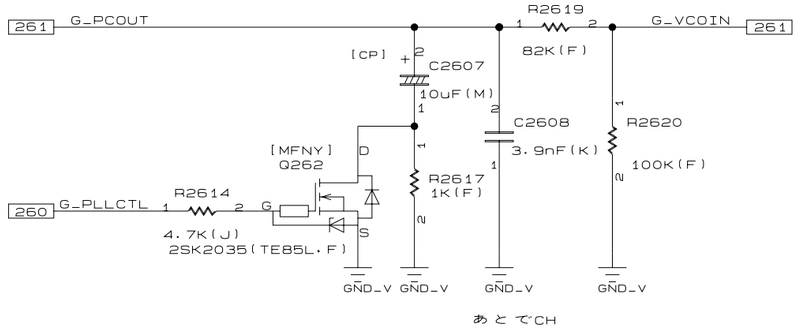
SH.NO.
253



62HM95
SEINE_DIGITAL (LPF_Slicer)

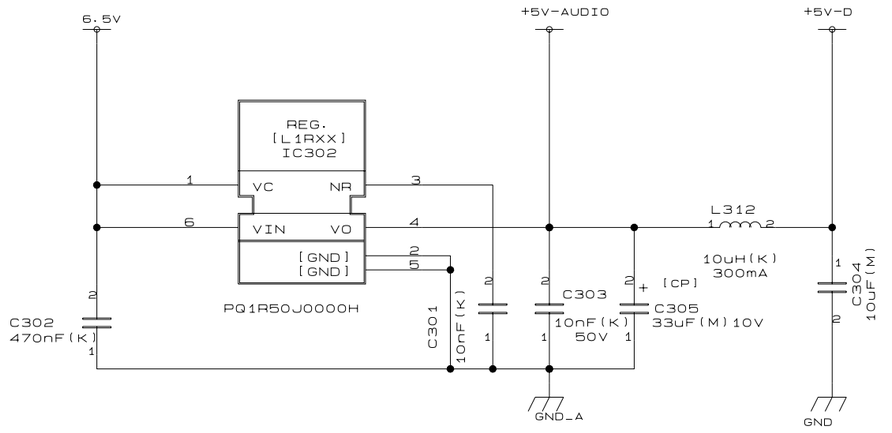
SH.NO.
260





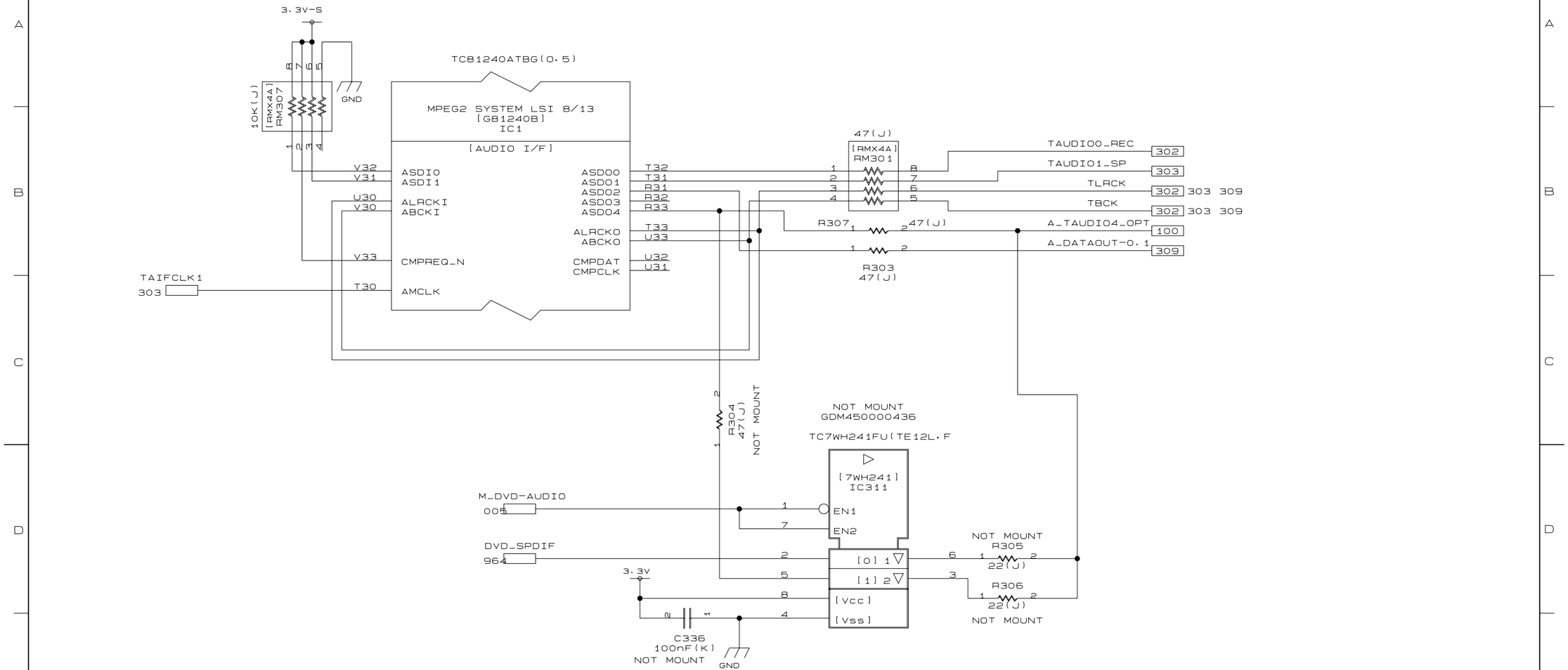
62HM95
SEINE_DIGITAL (H/V_Sync_Sep.)

SH.NO.
261



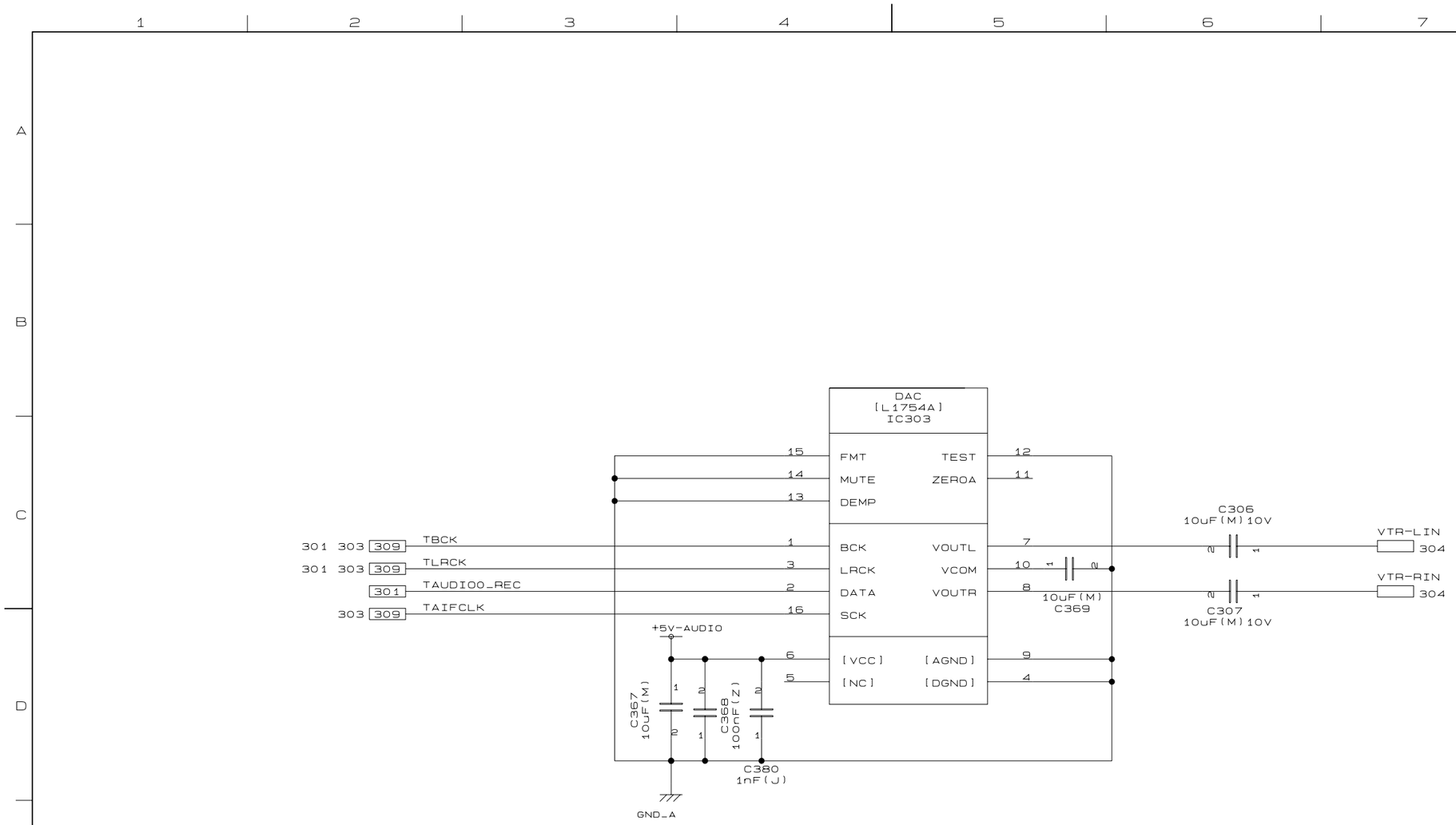
62HM95
SEINE_DIGITAL (AUDIO_POWER)

SH.NO.
300



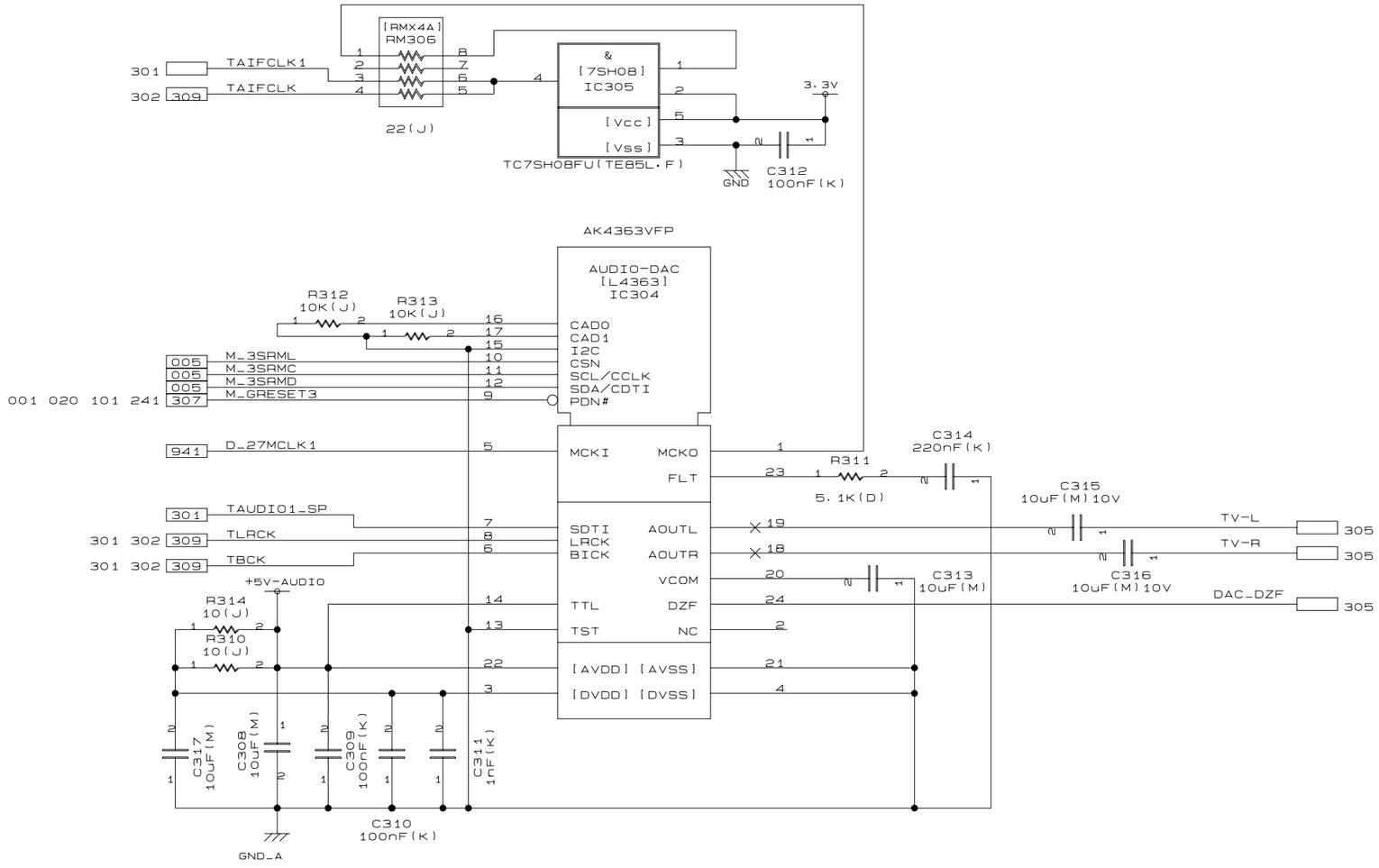
62HM95
SEINE_DIGITAL (SEINE_AUDIO_I/F)

SH.NO.
301



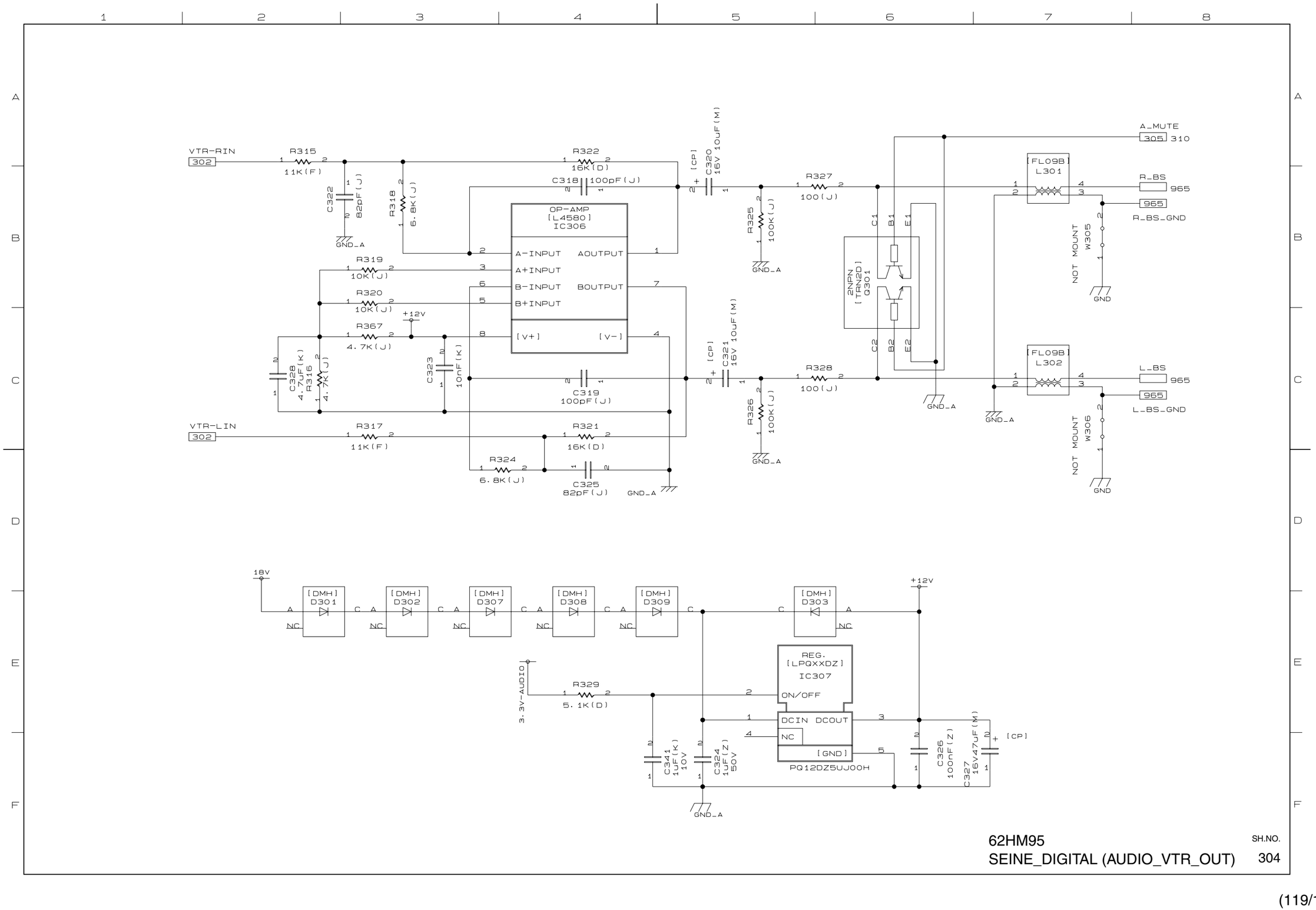
62HM95
SEINE_DIGITAL (AUDIO_DAC)

SH.NO.
302



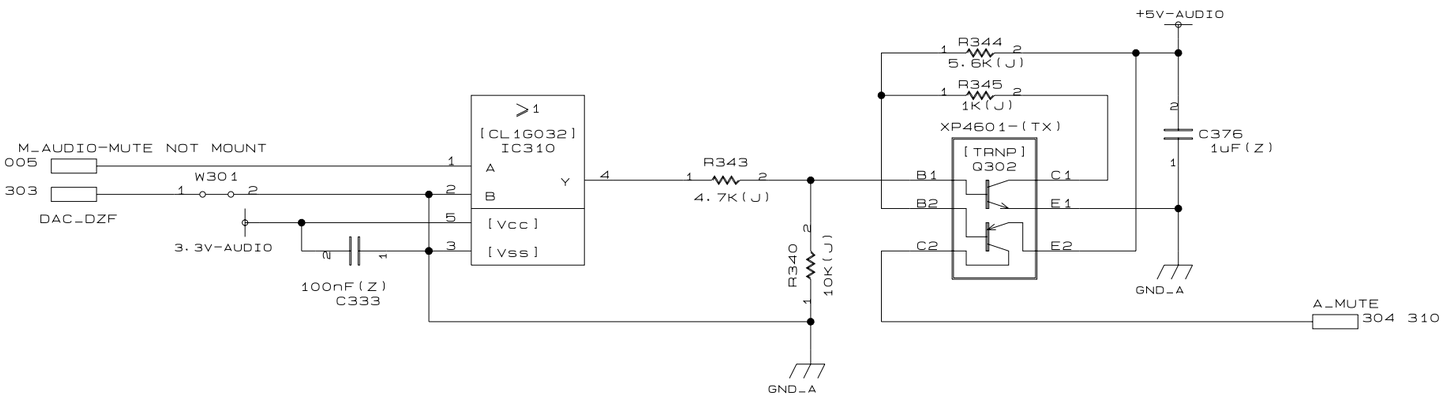
62HM95
SEINE_DIGITAL (AUDIO_PLL/DAC)

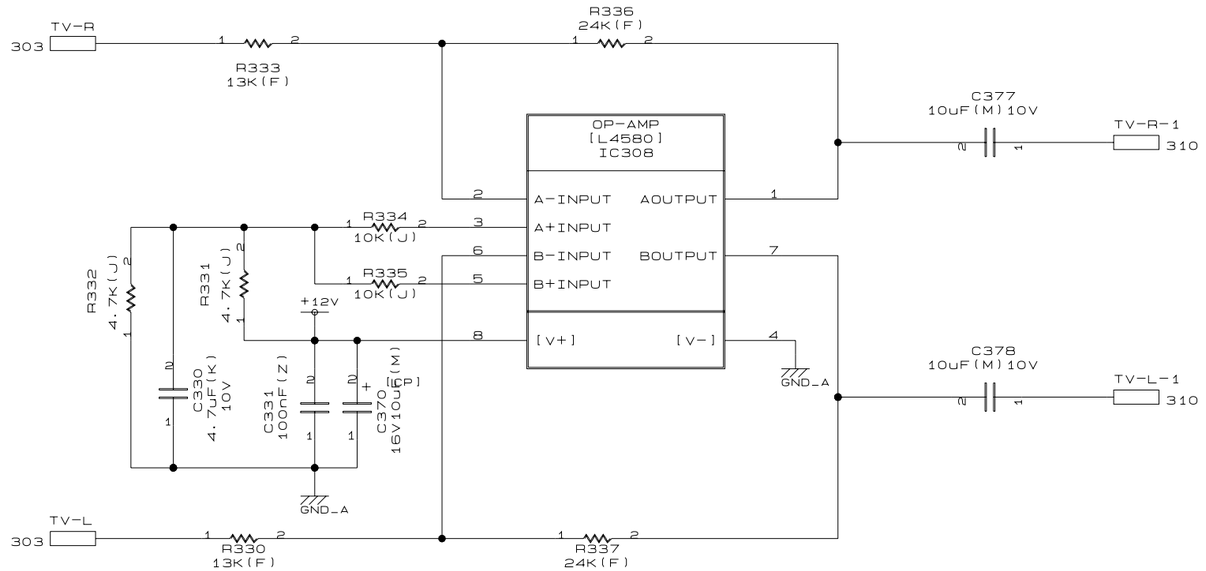
SH.NO.
303



62HM95
SEINE_DIGITAL (AUDIO_VTR_OUT)

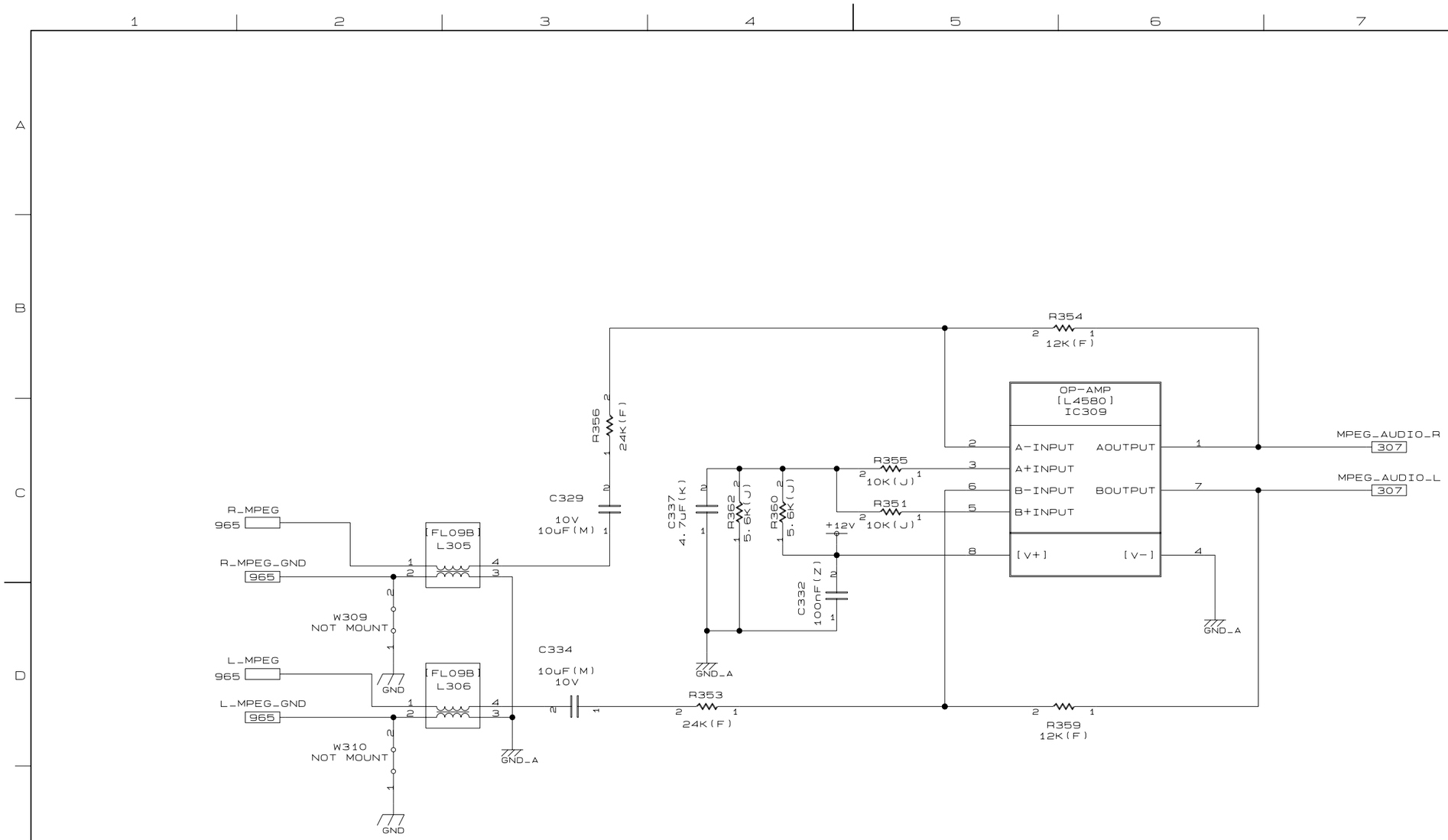
SH.NO.
304





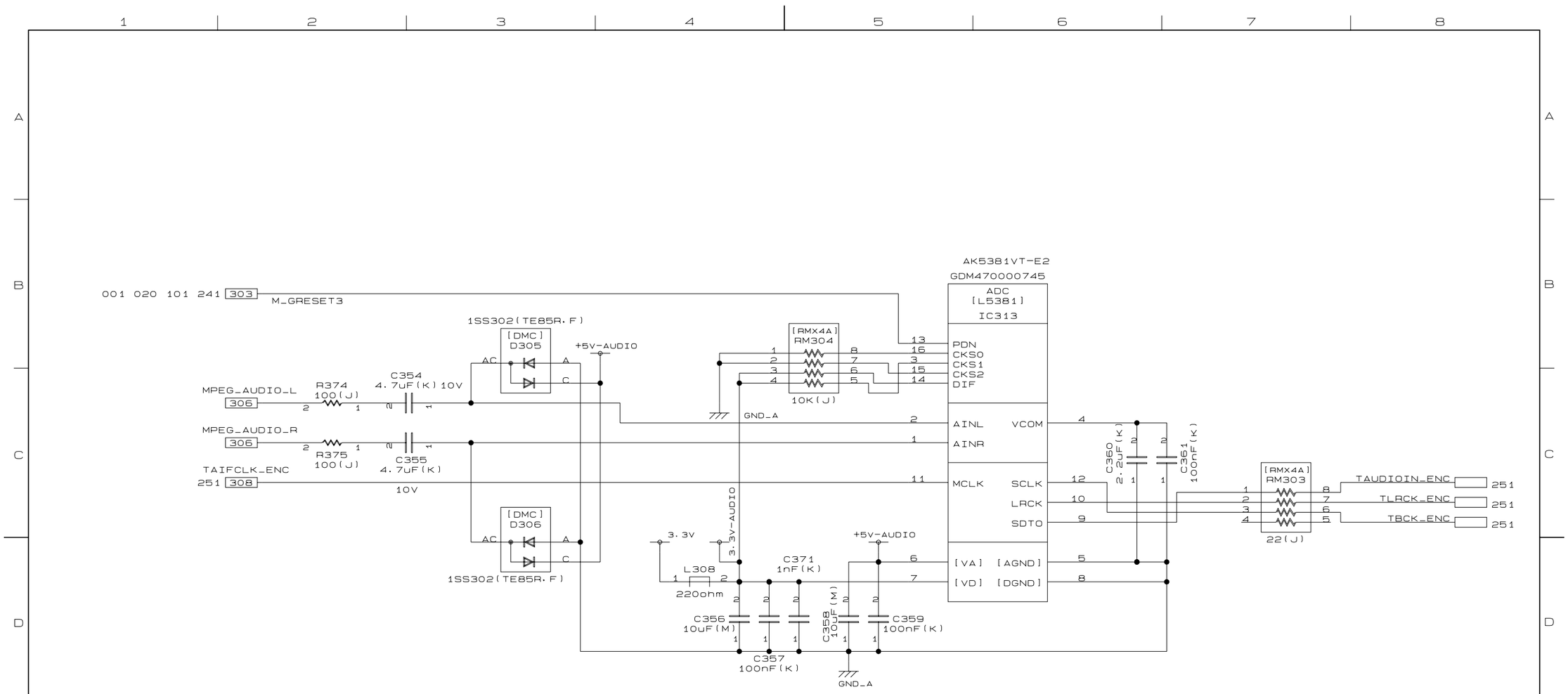
62HM95
SEINE_DIGITAL (AUDIO_SP_OUT)

SH.NO.
305



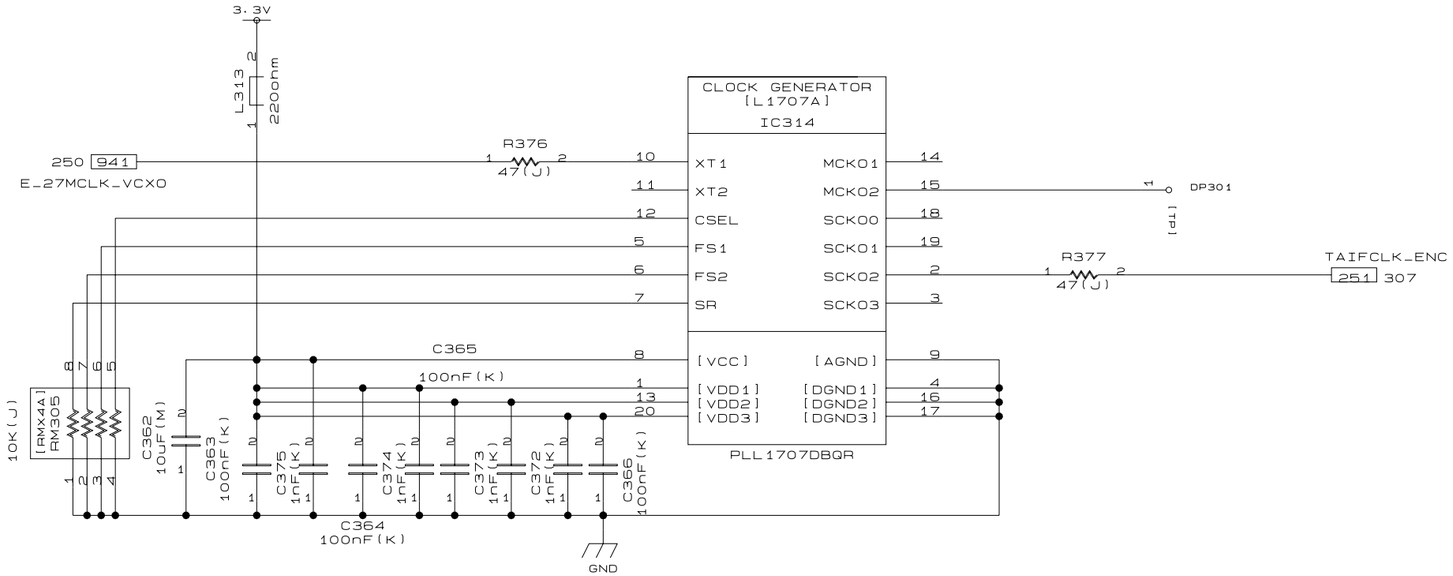
62HM95
SEINE_DIGITAL (MPEG_AUDIO_TV_IN)

SH.NO. 306



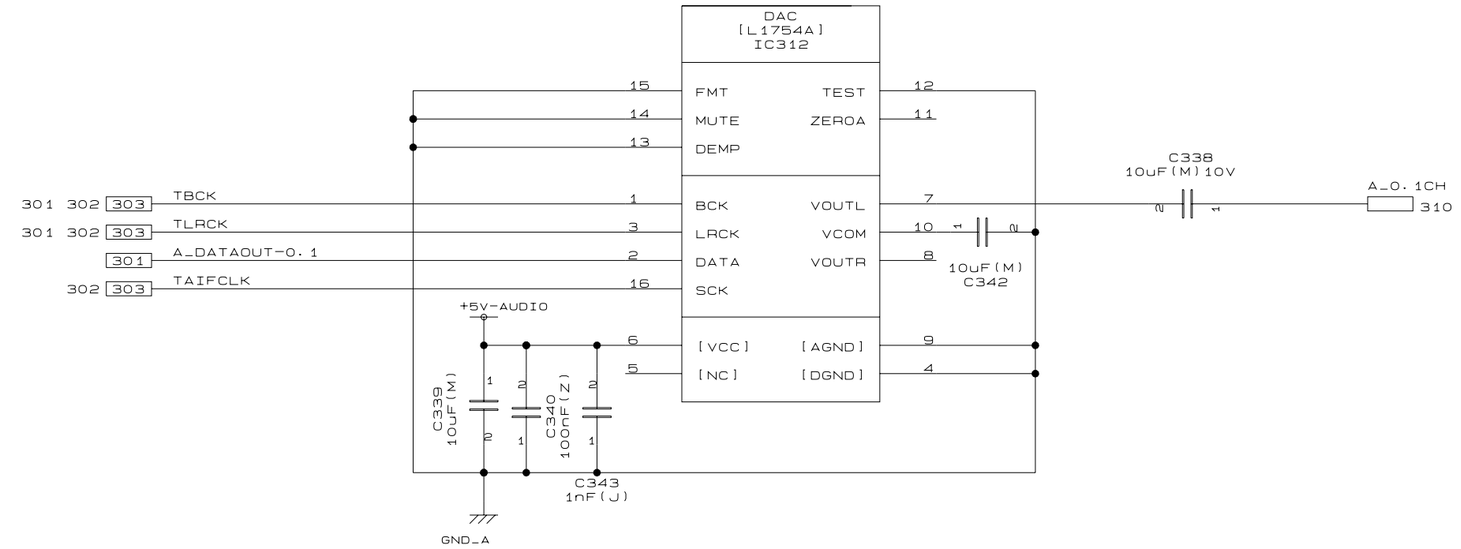
62HM95
SEINE_DIGITAL (MPEG_AUDIO_ADC)

SH.NO.
307



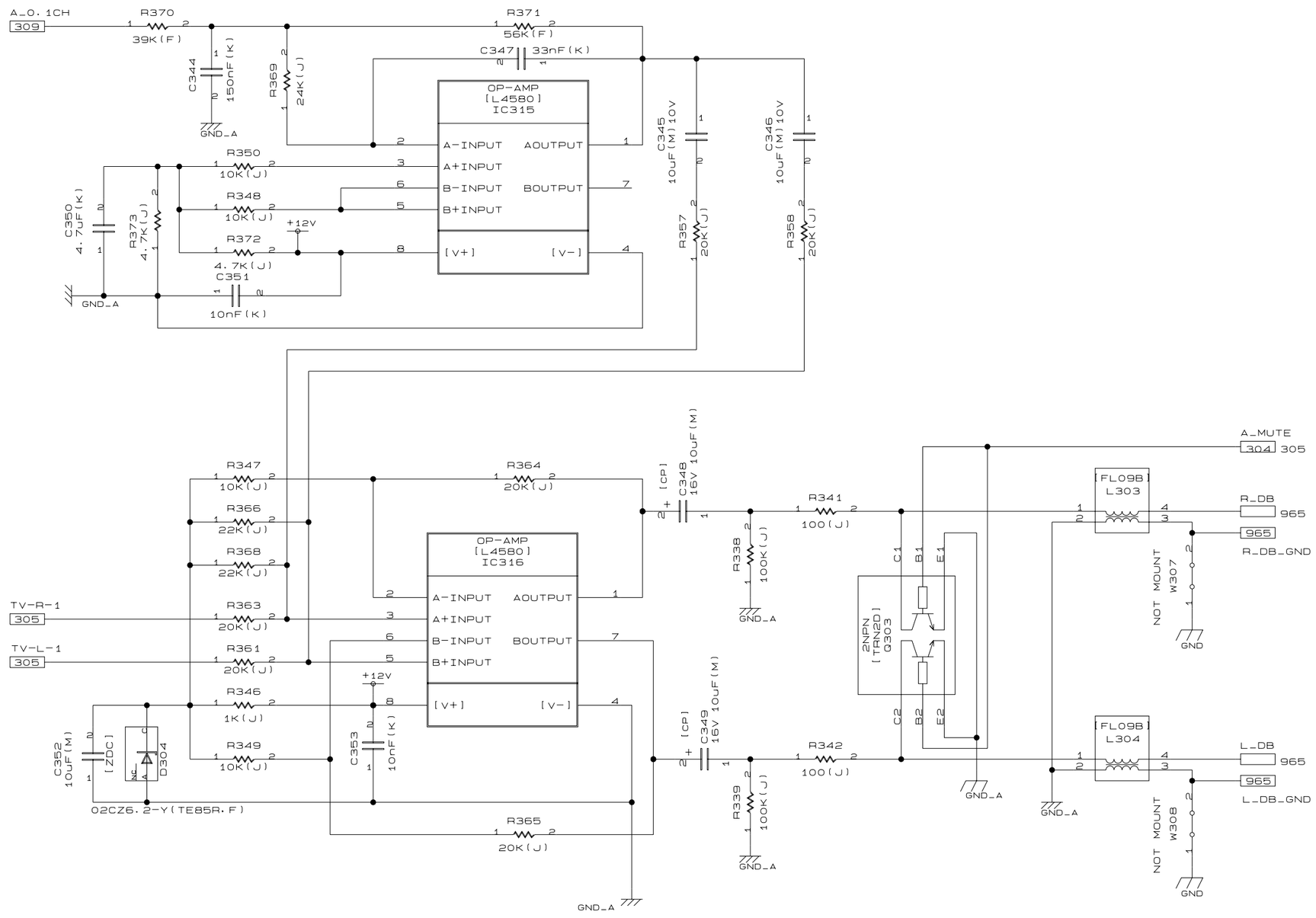
62HM95
SEINE_DIGITAL (MPEG_AUDIO_PLL)

SH.NO.
308



62HM95
SEINE_DIGITAL (AUDIO_DAC_0.1CH)

SH.NO.
309



62HM95
SEINE_DIGITAL (AUDIO_VTR_OUT)

SH.NO.
310

GDM460001083
MB86619CPFF-G-BNDE1

IEEE1394 CONTROLLER 1/2
[U86619A]
IC401

R426 O(X) 1394_GND GND
R427 O(X) 1394_GND GND
R428 O(X) 1394_GND GND

R405 5.1K(J) C401 270pF(J) 1394_GND
R406 56(J)
R407 56(J)

GDM2220001446 [C4A2] PJ401
GDM130000347 [FL09J] L401
EXC28CE201U
1T 2T GND

R408 56(J)
R409 56(J)
S_TPBIAS0 400
C402 1uF(Z) 1394_GND

R410 5.1K(J) C403 270pF(J) 1394_GND
R411 56(J)
R412 56(J)

GDM2220001446 [C4A2] PJ402
GDM130000347 [FL09J] L402
EXC28CE201U
1T 2T GND

R413 56(J)
R414 56(J)
S_TPBIAS1 400
C404 1uF(Z) 1394_GND

1394+3.3V
M_1394RST 001

[MPU IF]

A12		M_SBA12	78	D15	104	M_SBD15 002 006 007 250 701
A11	003 006 007 701	M_SBA11	79	D14	105	M_SBD14 002 006 007 250 701
A10	003 006 007 701	M_SBA10	80	D13	106	M_SBD13 002 006 007 250 701
A9	003 006 007 701	M_SBA9	83	AD12	107	M_SBD12 002 006 007 250 701
A8	003 006 007 700	M_SBA8	84	AD11	108	M_SBD11 002 006 007 250 701
A7	003 006 007 700	M_SBA7	85	AD10	110	M_SBD10 002 006 007 250 701
A6	003 006 007 701	M_SBA6	86	AD9	111	M_SBD9 002 006 007 250 701
A5	003 006 007 250 701	M_SBA5	88	AD8	112	M_SBD8 002 006 007 250 701
A4	003 006 007 250 701	M_SBA4	89	AD7	113	M_SBD7 002 006 007 017 701
A3	003 006 007 017 250 701	M_SBA3	90	AD6	114	M_SBD6 002 006 007 017 701
A2	003 006 007 017 250 700 701	M_SBA2	91	AD5	116	M_SBD5 002 006 007 017 701
A1	003 006 007 250 700 701	M_SBA1	92	AD4	117	M_SBD4 002 006 007 017 701
		M_SBCE3	97	AD3	118	M_SBD3 002 006 007 017 701
XCS	002	M_SBOE2	99	AD2	119	M_SBD2 002 006 007 017 701
XRD(R/XW)	002	M_SBWE2	98	AD1	120	M_SBD1 002 006 007 017 701
XWR(XDS)	002		100	DO	121	M_SBD0 002 006 007 017 701
ALE						
XDACK			125	DREQ	124	
XDMRD			127			
XDMWR			126	XINT	101	S_1394INT 001

[IEEE1394 IF]

TPA0		68	TPBIAS0	69	S_TPBIAS0 400
XTPA0		67	TPBIAS1	60	S_TPBIAS1 400
TPB0		66	TPBIAS2	51	
XTPB0		65			
TPA1		59	TPA2	50	
XTPA1		58	XTPA2	49	
TPB1		57	TPB2	48	
XTPB1		56	XTPB2	47	

1394_GND

XO		33	FIL	38	
XI		31	RF	39	
			RO	42	
CPS	1394+3.3V	41			
PMODE		28	LINKON	29	

R419 4.7K(J)
R418 3.9K(J)
C408 3.3nF(K)
1394_GND 1394_GND

[X] X401 24.576MHz
C405 24pF(J)
C406 24pF(J)
GND GND

[AUDIO IF]

LRCK	173	MCLK	164
BCLK	166		
SDO	170		
SD1	169		
SD2	168		
VSS	174		

1394_GND

XOA	153	FILA1	157
XIA	151	RFA	155

1394_GND 1394_GND

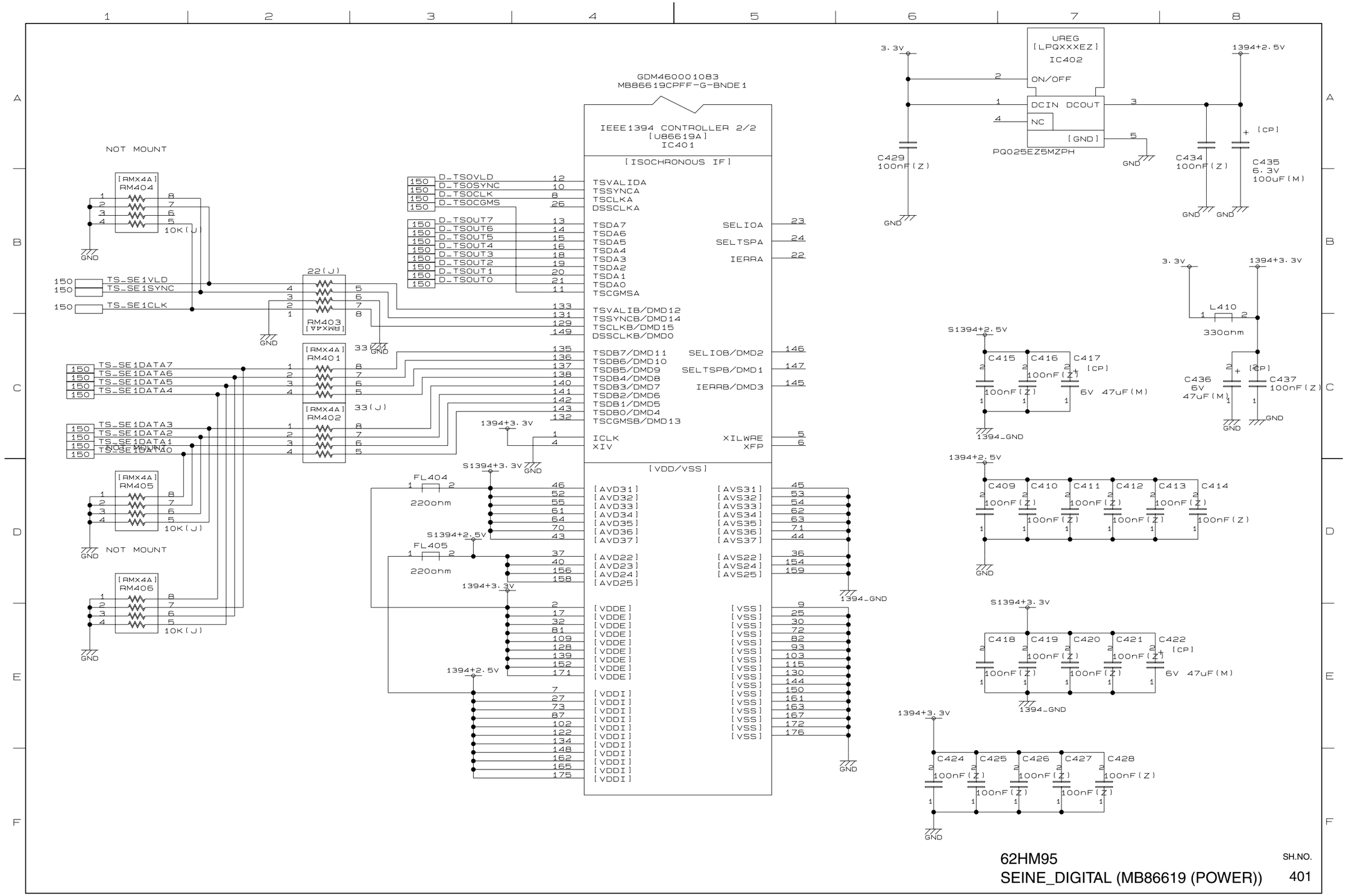
[TEST]

SAT	3		
XSM	74	S200MODE	34
XTST	75	TEST2	35
SMCK	76	TEST3	160
MST	77		

OPEN :S400
PULL-UP:S200
1394_GND

62HM95
SEINE_DIGITAL (MB86619)

SH.NO.
400


GDM460001083
MB86619CPFF-G-BNDE1
IEEE1394 CONTROLLER 2/2
[U86619A]
IC401
[ISOCHRONOUS IF]
[VDD/VSS]
NOT MOUNT
[RMX4A]
RM404
10K(J)
RM403
22(J)
RM401
33(J)
RM402
RM405
RM406
D_TSOVLD
D_TSOSYNC
D_TSOCLK
D_TSOCGMS
D_TSOUT7
D_TSOUT6
D_TSOUT5
D_TSOUT4
D_TSOUT3
D_TSOUT2
D_TSOUT1
D_TSOUT0
TS_SE1VLD
TS_SE1SYNC
TS_SE1CLK
TS_SE1DATA7
TS_SE1DATA6
TS_SE1DATA5
TS_SE1DATA4
TS_SE1DATA3
TS_SE1DATA2
TS_SE1DATA1
TS_SE1DATA0
TSVALIDA
TSSYNCA
TSCLKA
DSSCLKA
TSDA7
TSDA6
TSDA5
TSDA4
TSDA3
TSDA2
TSDA1
TSDA0
TSCGMSA
TSVALIB/DMD12
TSSYNCB/DMD14
TSCLKB/DMD15
DSSCLKB/DMD0
TSDB7/DMD11
TSDB6/DMD10
TSDB5/DMD9
TSDB4/DMD8
TSDB3/DMD7
TSDB2/DMD6
TSDB1/DMD5
TSDB0/DMD4
TSCGMSB/DMD13
ICLK
XIV
SELIOA
SELTSPA
IERRA
SELIOB/DMD2
SELTSPB/DMD1
IERRB/DMD3
XILWRE
XFP
1394+3.3V
S1394+3.3V
FL404
FL405
220ohm
S1394+2.5V
1394+2.5V
[AVD31]
[AVD32]
[AVD33]
[AVD34]
[AVD35]
[AVD36]
[AVD37]
[AVD22]
[AVD23]
[AVD24]
[AVD25]
[AVS31]
[AVS32]
[AVS33]
[AVS34]
[AVS35]
[AVS36]
[AVS37]
[AVS22]
[AVS24]
[AVS25]
[VDDE]
[VDDI]
[VSS]
1394_GND
GND
UREG
[LPQXXXEZ]
IC402
ON/OFF
DCIN DCOUT
NC
[GND]
PQ025EZ5MZPH
3.3V
C429
100nF(Z)
C434
100nF(Z)
C435
6.3V
100uF(M)
[CP]
L410
330ohm
C415
C416
C417
100nF(Z)
6V 47uF(M)
C436
6V
47uF(M)
C437
100nF(Z)
C409
C410
C411
C412
C413
C414
C418
C419
C420
C421
C422
C424
C425
C426
C427
C428
62HM95
SEINE_DIGITAL (MB86619 (POWER))
SH.NO.
401

GDM450000528

[G95144TQ144]
IC701

XC95144XL-10TQG144C-H95

JTAG_TDI
JTAG_TMS
JTAG_TCK
JTAG_TDO
[RMX4A] RM706
22(J)

M_SBCLKO
P_PODCLK
M_PODRST

TCK
TDI
TDO
TMS

DEMO_D7
DEMO_D6
DEMO_D5
DEMO_D4
form TUNER
DEMO_D3
DEMO_D2
DEMO_D1
DEMO_D0
DEMO_SYC
DEMO_VAL
DEMO_ERR
DEMO_CLK
POD_CRX
POD_DRX
to POD

M_UATXD3_SW
M_UARXD3_SW
22(J) R728
22(J) R729
to G-LINK buffer

P_TSDAT0
P_TSDAT1
P_TSDAT2
P_TSDAT3
P_TSDAT4
P_TSDAT5
P_TSDAT6
P_TSDAT7
P_TSSYNC
P_TSVLD
P_TSCLK

P_PODSBD0
P_PODSBD1
P_PODSBD2
P_PODSBD3
P_PODSBD4
P_PODSBD5
P_PODSBD6
P_PODSBD7
P_PODCE1
P_PODCE2
P_PODWE
P_PODOE
P_PODRST
P_PODIORD
P_PODIOWR
P_REG
P_PODSBA0
P_PODSBA8
P_PODSBA9

3.3V

VCCINT
VCCIO
GND

P_IREQ
P_WAIT
P_CD1
P_CD2
P_VS1
P_VS2
P_PODTS0
P_PODTS1
P_PODTS2
P_PODTS3
P_PODTS4
P_PODTS5
P_PODTS6
P_PODTS7
P_PODSYNC
P_PODVLD
from POD

P_BUS0
P_BUS1
P_DIR
P_CARDEN
P_PLDSBD0
P_PLDSBD1
P_PLDSBD2
P_PLDSBD3
P_PLDSBD4
P_PLDSBD5
P_PLDSBD6
P_PLDSBD7
to Buffer
from Buffer

M_SBA1
M_SBA8
M_SBA9
M_SBA16
M_SBBE0
M_SBBE1
M_SBCE6
M_SBWE3
M_SBOE3
M_SBA2
M_SBA0
M_PODINT
R727 22(J)
to SEINE
from SEINE

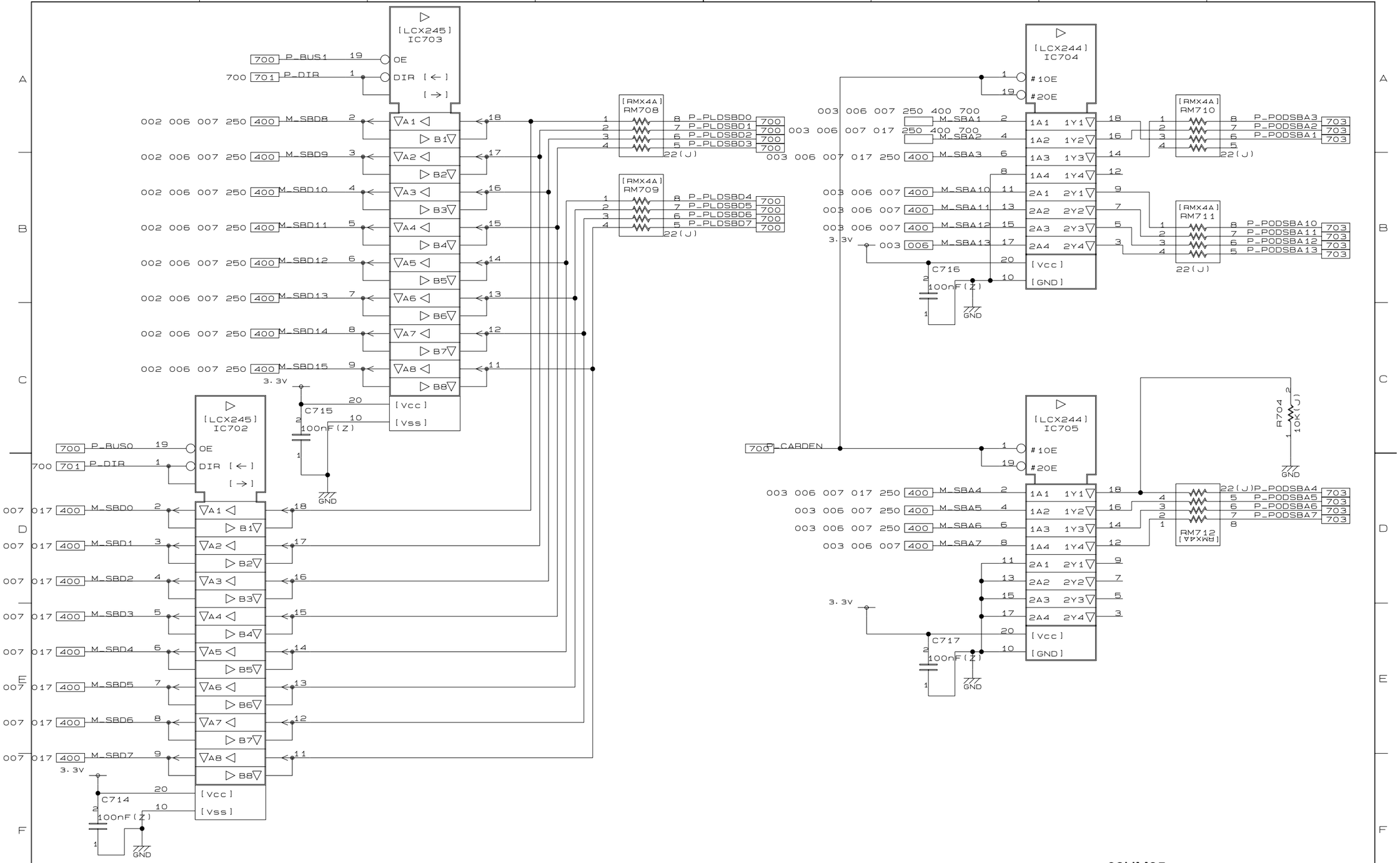
M_SBCE2
P_CTL0
P_CTL1
M_SBWE4
M_SBOE4
to POD power comtroller

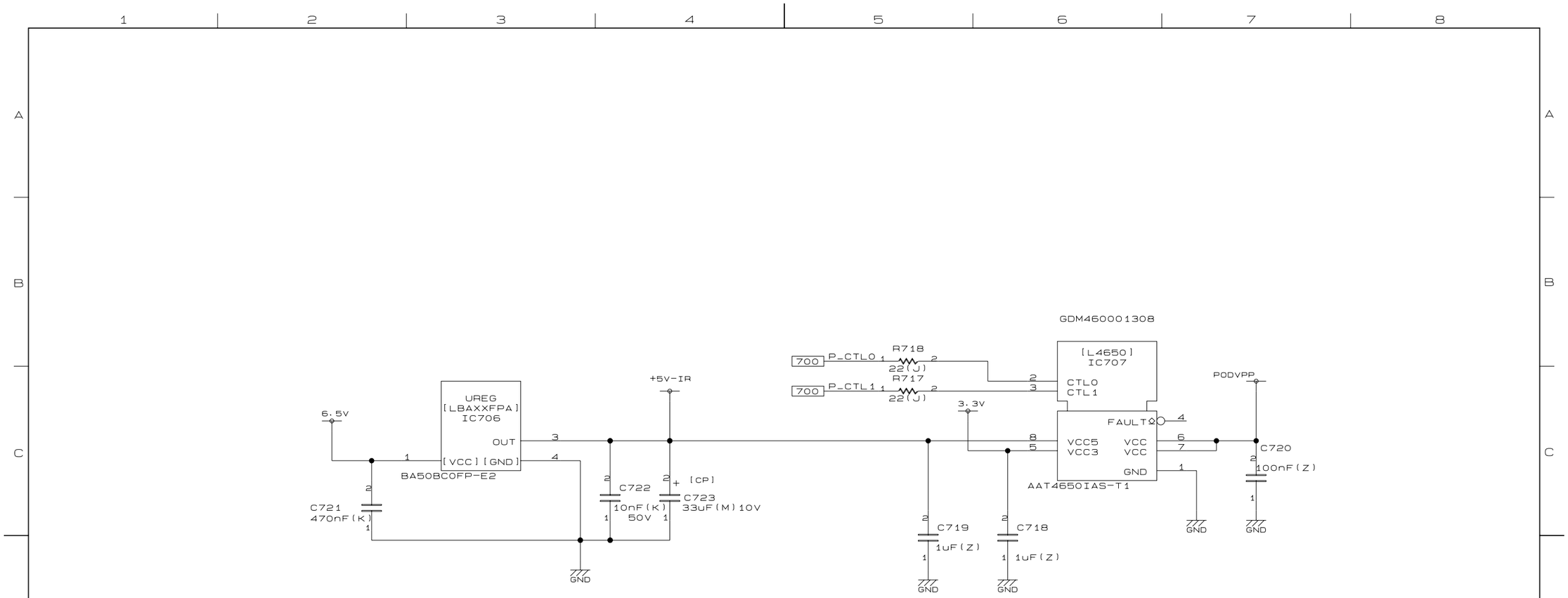
[RMX4A] RM727 33(J)
E_ENCWE
E_ENCOE
E_ENCCE

RM701 [RMX4A]
RM702 [RMX4A]
RM703 [RMX4A]
22(J) TS_SE0DATA0
TS_SE0DATA1
TS_SE0DATA2
TS_SE0DATA3
TS_SE0DATA4
TS_SE0DATA5
TS_SE0DATA6
TS_SE0DATA7
TS_SE0CLK
TS_SE0SYNC
TS_SE0VLD
TS_SE0ERR
150
to SEINE(TS Selector)

C704 C705 C706 C707 C708 C709 C710 C711 C712 C713
100nF(Z)

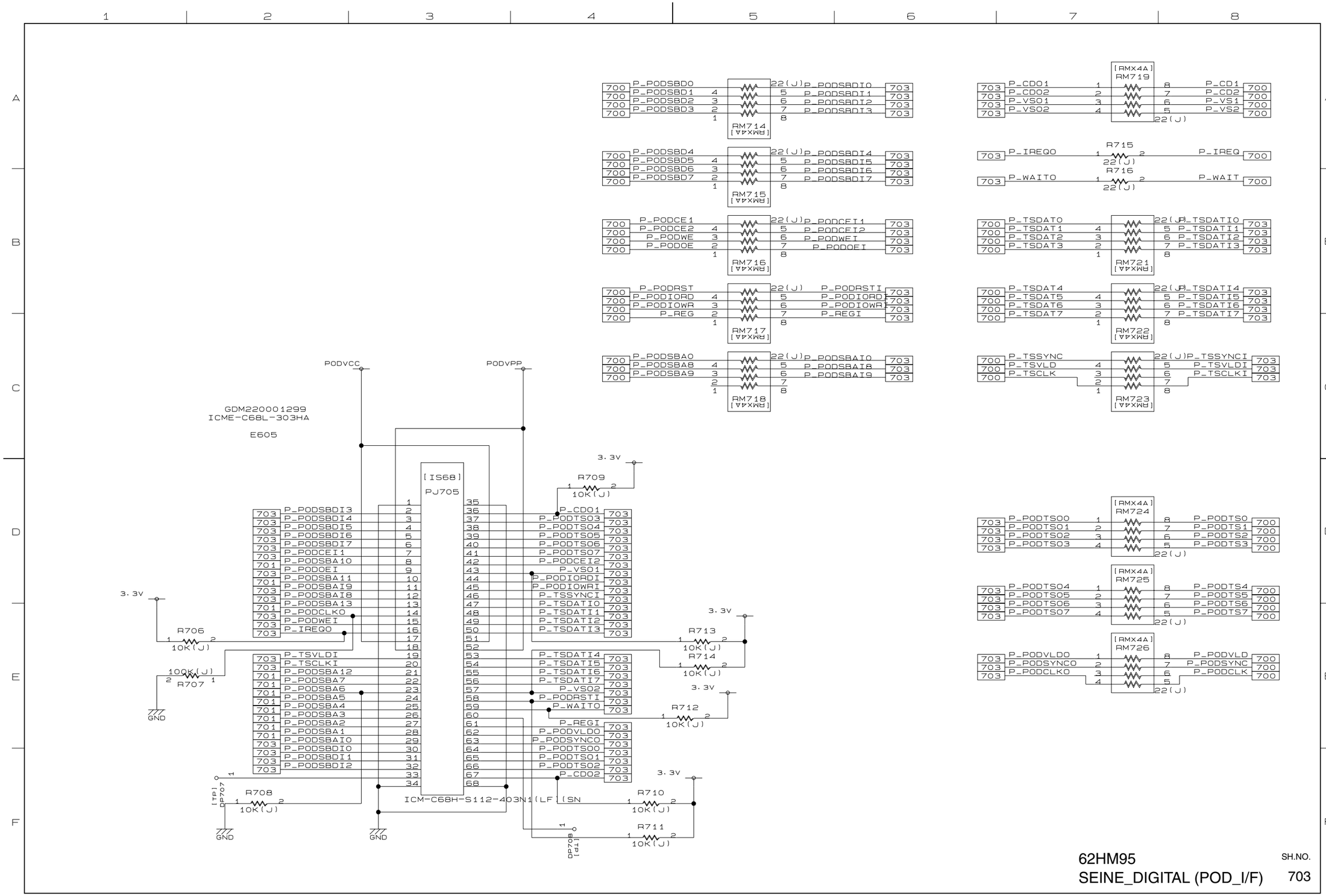
62HM95
SEINE_DIGITAL (CPLD_XILINX)
SH.NO. 700

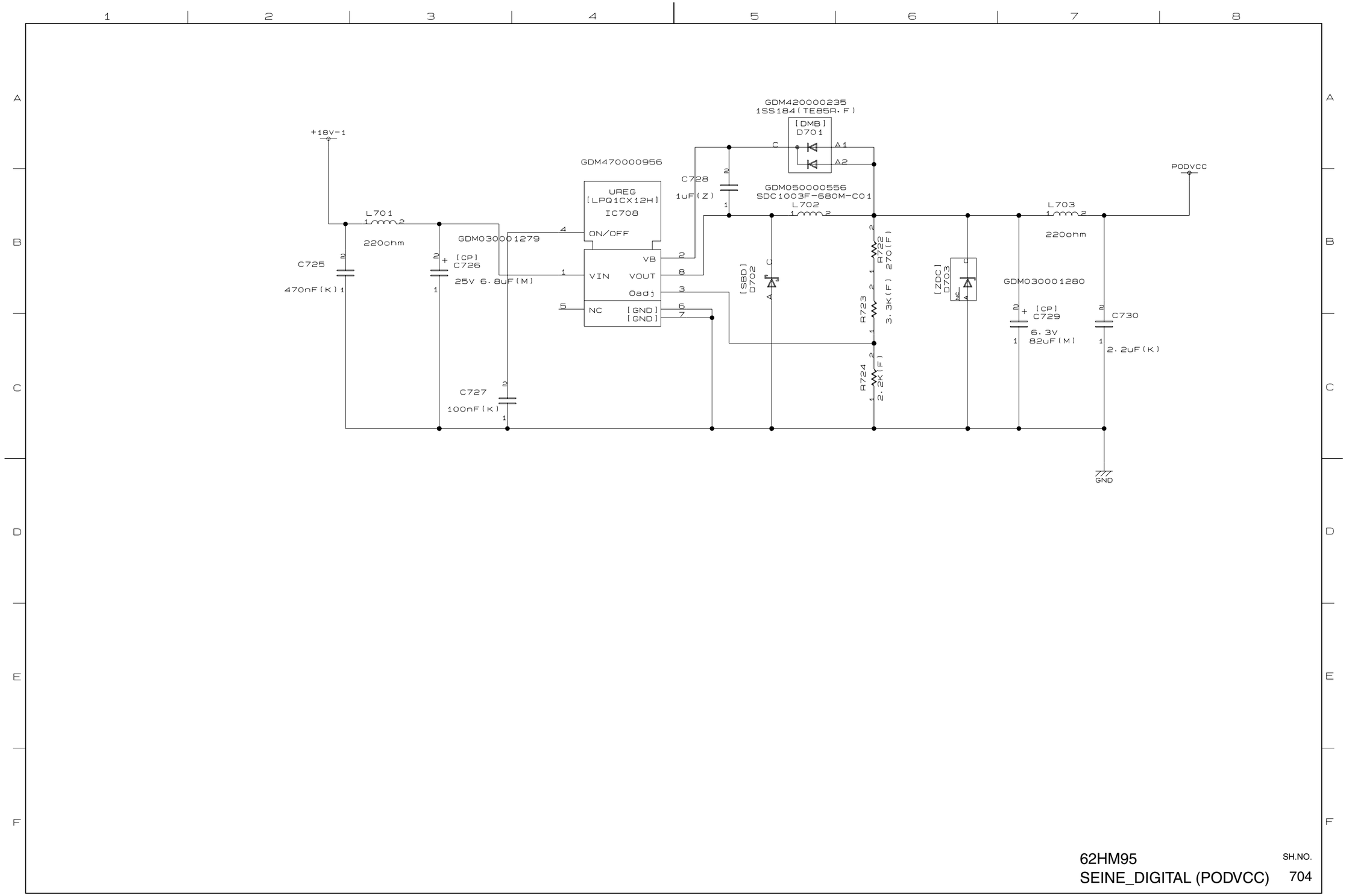

[LCX245] IC703
[LCX245] IC702
[LCX244] IC704
[LCX244] IC705
[RMX4A] RM708
[RMX4A] RM709
[RMX4A] RM710
[RMX4A] RM711
[RMX4A] RM712
P_BUS1
P_DIR
P_BUS0
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_SBD8
M_SBD9
M_SBD10
M_SBD11
M_SBD12
M_SBD13
M_SBD14
M_SBD15
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA10
M_SBA11
M_SBA12
M_SBA13
P_CARDEN
P_PLDSBD0
P_PLDSBD1
P_PLDSBD2
P_PLDSBD3
P_PLDSBD4
P_PLDSBD5
P_PLDSBD6
P_PLDSBD7
P_PODSBA1
P_PODSBA2
P_PODSBA3
P_PODSBA4
P_PODSBA5
P_PODSBA6
P_PODSBA7
P_PODSBA10
P_PODSBA11
P_PODSBA12
P_PODSBA13
C715 100nF(Z)
C716 100nF(Z)
C717 100nF(Z)
C714 100nF(Z)
R704 10K(J)
3.3V
GND
62HM95
SEINE_DIGITAL (SLOWBUS)
SH.NO.
701



62HM95
SEINE_DIGITAL (PODVPP)

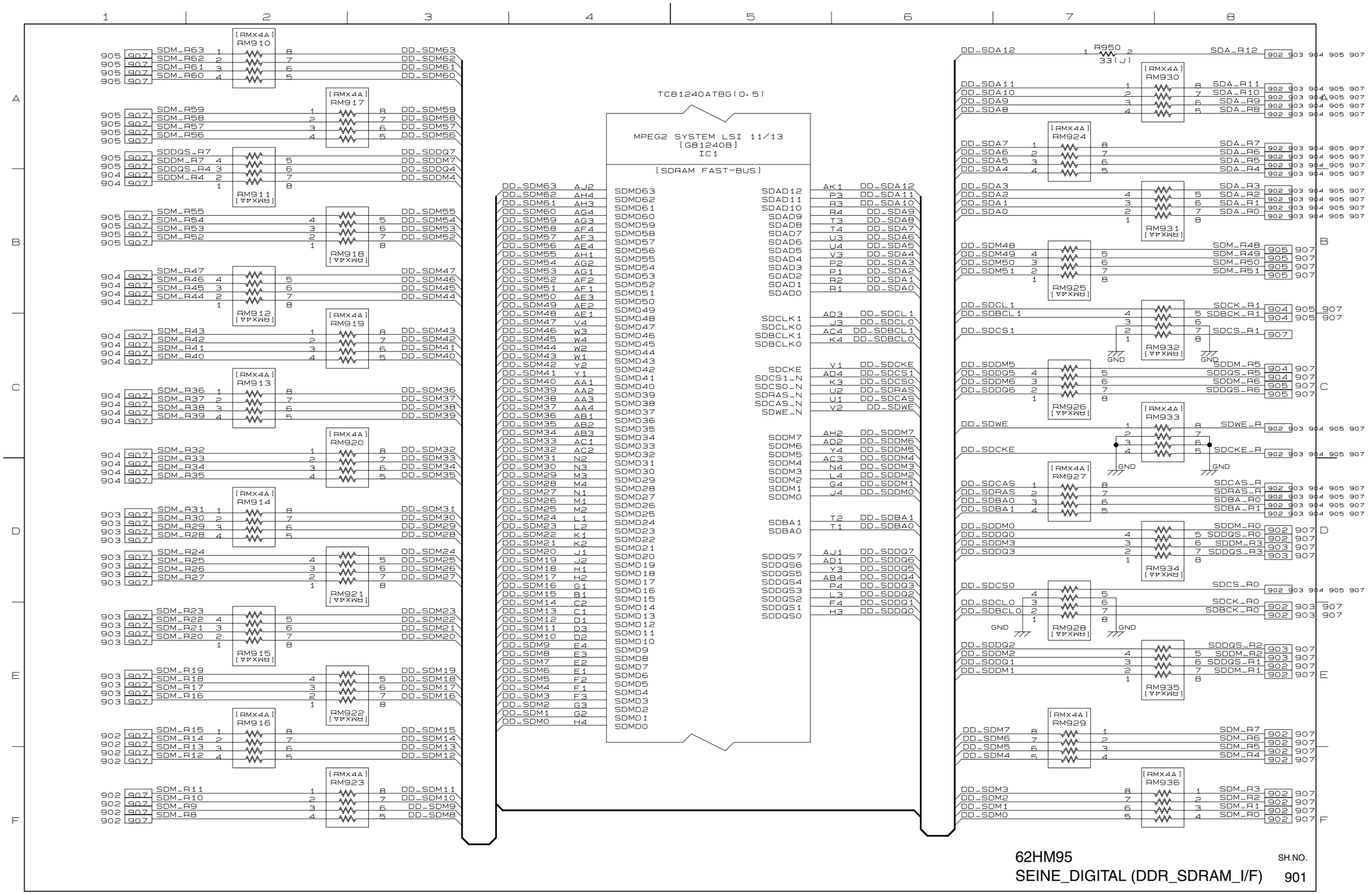
SH.NO.
702

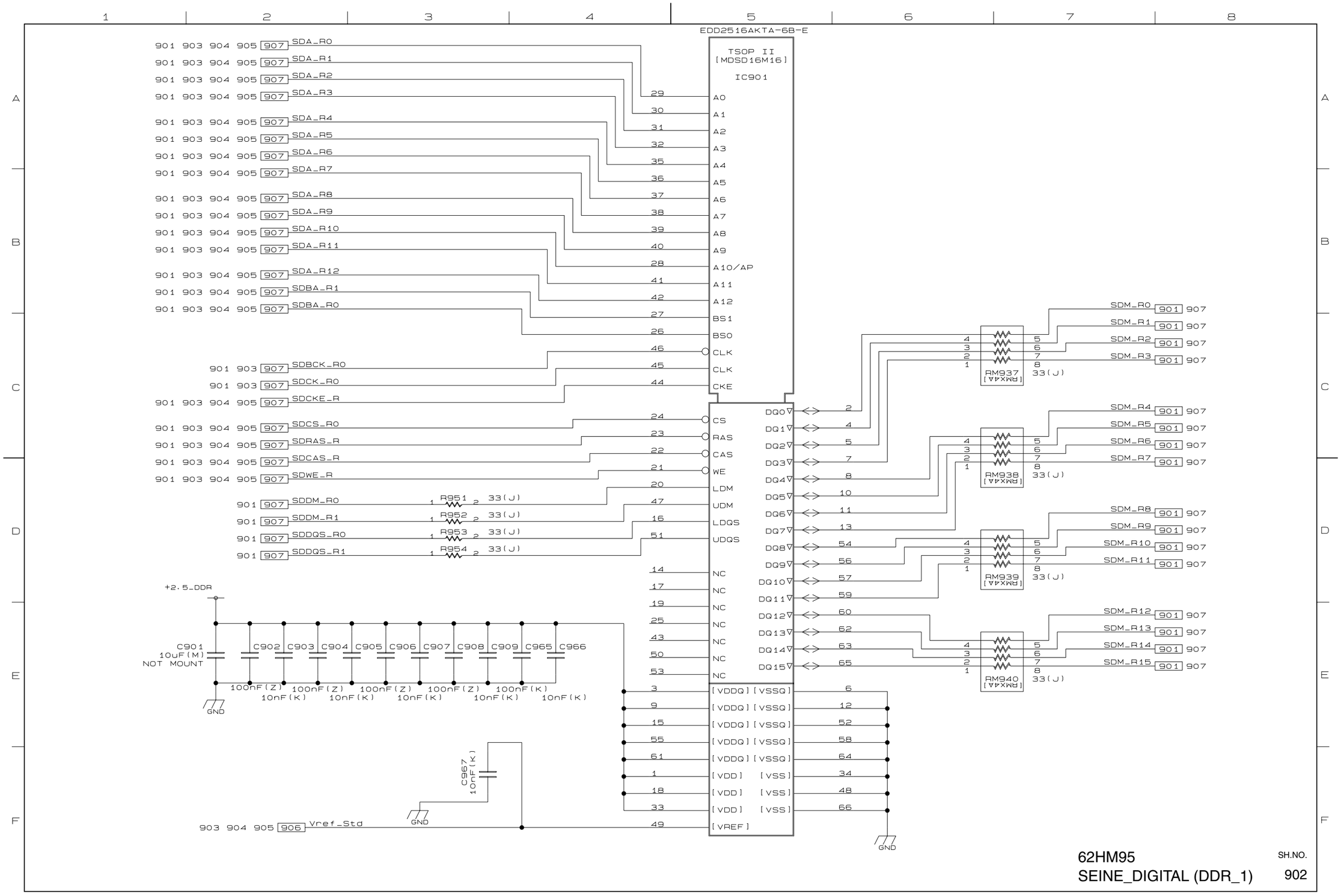

GDM220001299
ICME-C68L-303HA
E605
PODVCC
PODVPP
[IS68]
PJ705
ICM-C68H-S112-403N1(LF)(SN
3.3V
R709
10K(J)
R706
10K(J)
100K(J)
R707
GND
R708
10K(J)
[TP]
DP707
R713
10K(J)
R714
10K(J)
R712
10K(J)
R710
10K(J)
R711
10K(J)
DP708
[TP]
P_PODSBDI3
P_PODSBDI4
P_PODSBDI5
P_PODSBDI6
P_PODSBDI7
P_PODCEI1
P_PODSBA10
P_PODOEI
P_PODSBA11
P_PODSBAI9
P_PODSBAI8
P_PODSBA13
P_PODCLKO
P_PODWEI
P_IREQO
P_TSVLDI
P_TSCLKI
P_PODSBA12
P_PODSBA7
P_PODSBA6
P_PODSBA5
P_PODSBA4
P_PODSBA3
P_PODSBA2
P_PODSBA1
P_PODSBAIO
P_PODSBDIO
P_PODSBDI1
P_PODSBDI2
P_CDO1
P_PODTSO3
P_PODTSO4
P_PODTSO5
P_PODTSO6
P_PODTSO7
P_PODCEI2
P_VSO1
P_PODIORDI
P_PODIOWRI
P_TSSYNCI
P_TSDATIO
P_TSDATI1
P_TSDATI2
P_TSDATI3
P_TSDATI4
P_TSDATI5
P_TSDATI6
P_TSDATI7
P_VSO2
P_PODRSTI
P_WAITO
P_REGI
P_PODVLDO
P_PODSYNCO
P_PODTSO0
P_PODTSO1
P_PODTSO2
P_CDO2
[RMX4A]
RM714
P_PODSBDO
P_PODSBD1
P_PODSBD2
P_PODSBD3
22(J)P_PODSBDIO
P_PODSBDI1
P_PODSBDI2
P_PODSBDI3
RM715
P_PODSBD4
P_PODSBD5
P_PODSBD6
P_PODSBD7
22(J)P_PODSBDI4
P_PODSBDI5
P_PODSBDI6
P_PODSBDI7
RM716
P_PODCE1
P_PODCE2
P_PODWE
P_PODOE
22(J)P_PODCEI1
P_PODCEI2
P_PODWEI
P_PODOEI
RM717
P_PODRST
P_PODIORD
P_PODIOWR
P_REG
22(J) P_PODRSTI
P_PODIORDI
P_PODIOWRI
P_REGI
RM718
P_PODSBAO
P_PODSBA8
P_PODSBA9
22(J)P_PODSBAIO
P_PODSBAI8
P_PODSBAI9
[RMX4A]
RM719
P_CDO1
P_CDO2
P_VSO1
P_VSO2
22(J)
P_CD1
P_CD2
P_VS1
P_VS2
R715
P_IREQO
22(J)
P_IREQ
R716
P_WAITO
22(J)
P_WAIT
RM721
P_TSDATO
P_TSDAT1
P_TSDAT2
P_TSDAT3
22(J)P_TSDATIO
P_TSDATI1
P_TSDATI2
P_TSDATI3
RM722
P_TSDAT4
P_TSDAT5
P_TSDAT6
P_TSDAT7
22(J)P_TSDATI4
P_TSDATI5
P_TSDATI6
P_TSDATI7
RM723
P_TSSYNC
P_TSVLD
P_TSCLK
22(J)P_TSSYNCI
P_TSVLDI
P_TSCLKI
RM724
P_PODTSO0
P_PODTSO1
P_PODTSO2
P_PODTSO3
P_PODTS0
P_PODTS1
P_PODTS2
P_PODTS3
RM725
P_PODTSO4
P_PODTSO5
P_PODTSO6
P_PODTSO7
P_PODTS4
P_PODTS5
P_PODTS6
P_PODTS7
RM726
P_PODVLDO
P_PODSYNCO
P_PODCLKO
P_PODVLD
P_PODSYNC
P_PODCLK
62HM95
SEINE_DIGITAL (POD_I/F)
SH.NO.
703



62HM95
SEINE_DIGITAL (PODVCC)

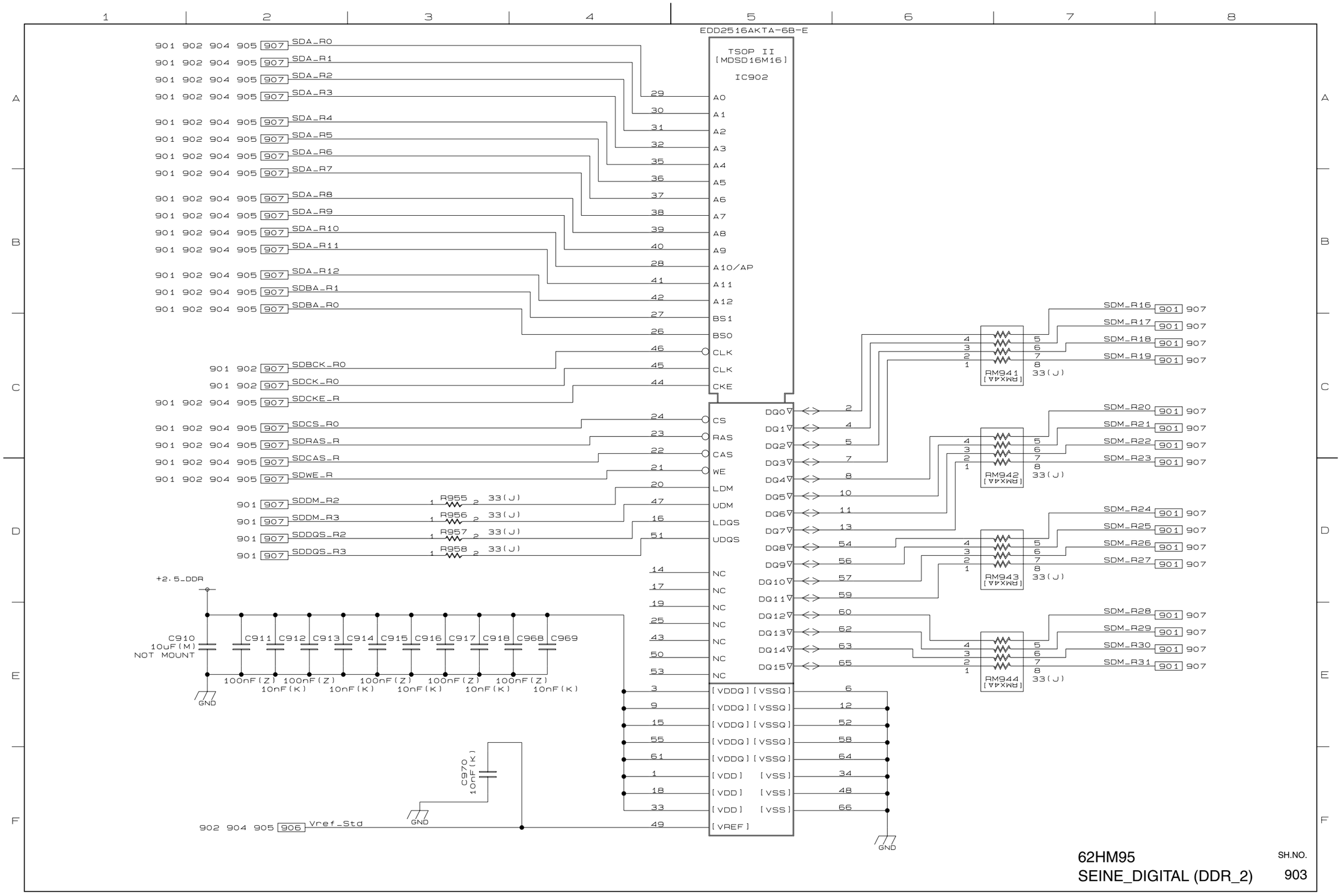
SH.NO.
704

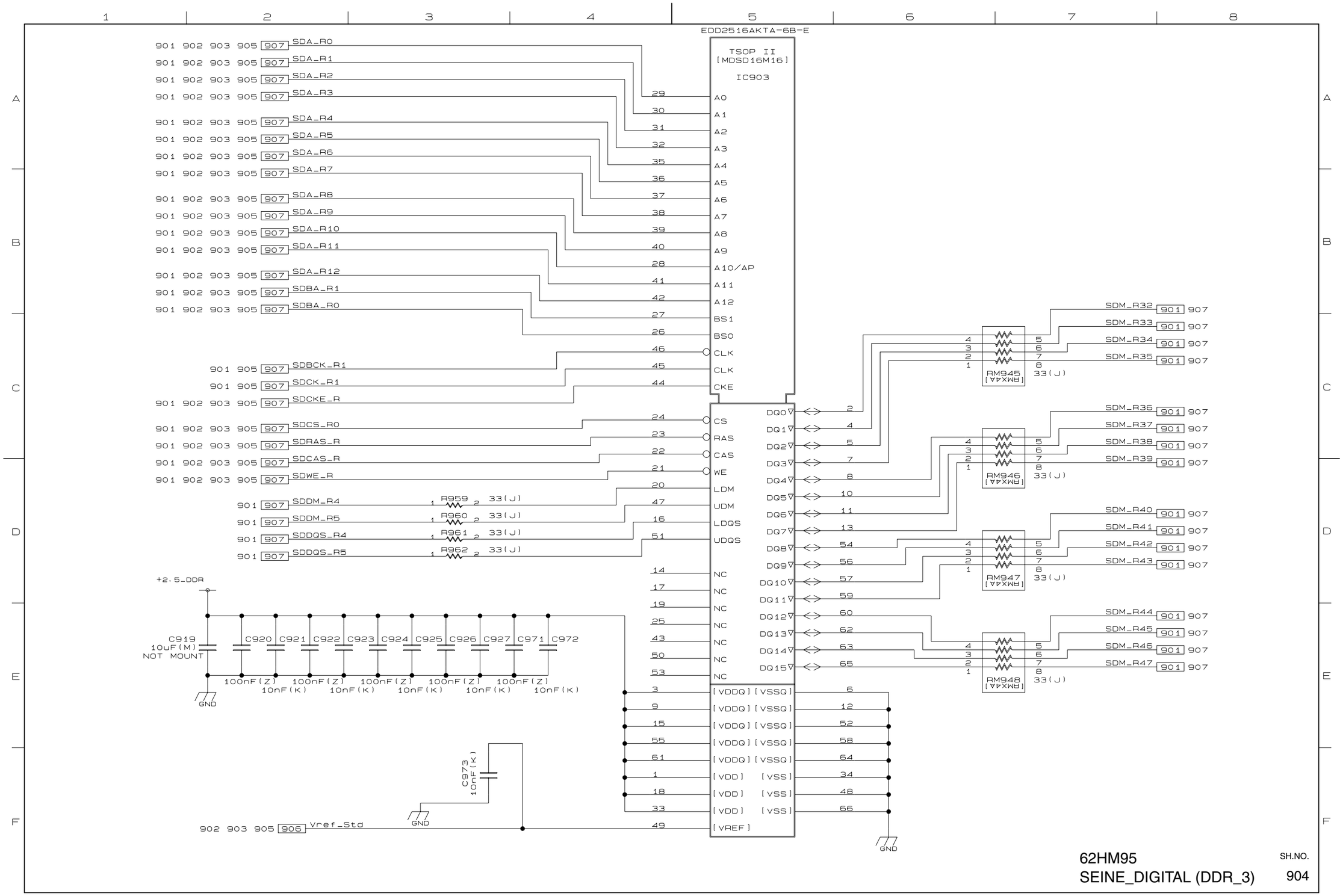

TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 11/13
[G81240B]
IC1
[SDRAM FAST-BUS]
[RMX4A] RM910
[RMX4A] RM911
[RMX4A] RM912
[RMX4A] RM913
[RMX4A] RM914
[RMX4A] RM915
[RMX4A] RM916
[RMX4A] RM917
[RMX4A] RM918
[RMX4A] RM919
[RMX4A] RM920
[RMX4A] RM921
[RMX4A] RM922
[RMX4A] RM923
[RMX4A] RM924
[RMX4A] RM925
[RMX4A] RM926
[RMX4A] RM927
[RMX4A] RM928
[RMX4A] RM929
[RMX4A] RM930
[RMX4A] RM931
[RMX4A] RM932
[RMX4A] RM933
[RMX4A] RM934
[RMX4A] RM935
[RMX4A] RM936
R950 33(J)
GND
62HM95
SEINE_DIGITAL (DDR_SDRAM_I/F)
SH.NO.
901



62HM95
SEINE_DIGITAL (DDR_1)

SH.NO.
902


EDD2516AKTA-6B-E
TSOP II
[MDSD16M16]
IC902
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
A12
BS1
BS0
CLK
CLK
CKE
CS
RAS
CAS
WE
LDM
UDM
LDQS
UDQS
NC
[VDDQ] [VSSQ]
[VDD] [VSS]
[VREF]
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
SDA_R0
SDA_R1
SDA_R2
SDA_R3
SDA_R4
SDA_R5
SDA_R6
SDA_R7
SDA_R8
SDA_R9
SDA_R10
SDA_R11
SDA_R12
SDBA_R1
SDBA_R0
SDBCK_R0
SDCK_R0
SDCKE_R
SDCS_R0
SDRAS_R
SDCAS_R
SDWE_R
SDDM_R2
SDDM_R3
SDDQS_R2
SDDQS_R3
R955 33(J)
R956 33(J)
R957 33(J)
R958 33(J)
+2.5_DDR
C910 10uF(M) NOT MOUNT
C911 C912 C913 C914 C915 C916 C917 C918 C968 C969
100nF(Z) 10nF(K)
GND
C970 10nF(K)
Vref_Std
SDM_R16
SDM_R17
SDM_R18
SDM_R19
SDM_R20
SDM_R21
SDM_R22
SDM_R23
SDM_R24
SDM_R25
SDM_R26
SDM_R27
SDM_R28
SDM_R29
SDM_R30
SDM_R31
RM941 [RMX4A] 33(J)
RM942 [RMX4A] 33(J)
RM943 [RMX4A] 33(J)
RM944 [RMX4A] 33(J)
62HM95
SEINE_DIGITAL (DDR_2)
SH.NO.
903


EDD2516AKTA-6B-E
TSOP II
[MDSD16M16]
IC903
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
A12
BS1
BS0
CLK
CLK
CKE
CS
RAS
CAS
WE
LDM
UDM
LDQS
UDQS
NC
[VDDQ] [VSSQ]
[VDD] [VSS]
[VREF]
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
SDA_R0
SDA_R1
SDA_R2
SDA_R3
SDA_R4
SDA_R5
SDA_R6
SDA_R7
SDA_R8
SDA_R9
SDA_R10
SDA_R11
SDA_R12
SDBA_R1
SDBA_R0
SDBCK_R1
SDCK_R1
SDCKE_R
SDCS_R0
SDRAS_R
SDCAS_R
SDWE_R
SDDM_R4
SDDM_R5
SDDQS_R4
SDDQS_R5
R959 33(J)
R960 33(J)
R961 33(J)
R962 33(J)
+2.5_DDR
C919 10uF(M) NOT MOUNT
C920 C921 C922 C923 C924 C925 C926 C927 C971 C972
100nF(Z) 10nF(K)
GND
C973 10nF(K)
Vref_Std
SDM_R32
SDM_R33
SDM_R34
SDM_R35
SDM_R36
SDM_R37
SDM_R38
SDM_R39
SDM_R40
SDM_R41
SDM_R42
SDM_R43
SDM_R44
SDM_R45
SDM_R46
SDM_R47
RM945 [RMX4A] 33(J)
RM946 [RMX4A] 33(J)
RM947 [RMX4A] 33(J)
RM948 [RMX4A] 33(J)
62HM95
SEINE_DIGITAL (DDR_3)
SH.NO.
904

EDD2516AKTA-6B-E

TSOP II
[MDSD16M16]

IC904

901 902 903 904 907	SDA_R0	29	A0
901 902 903 904 907	SDA_R1	30	A1
901 902 903 904 907	SDA_R2	31	A2
901 902 903 904 907	SDA_R3	32	A3
901 902 903 904 907	SDA_R4	35	A4
901 902 903 904 907	SDA_R5	36	A5
901 902 903 904 907	SDA_R6	37	A6
901 902 903 904 907	SDA_R7	38	A7
901 902 903 904 907	SDA_R8	39	A8
901 902 903 904 907	SDA_R9	40	A9
901 902 903 904 907	SDA_R10	28	A10/AP
901 902 903 904 907	SDA_R11	41	A11
901 902 903 904 907	SDA_R12	42	A12
901 902 903 904 907	SDBA_R1	27	BS1
901 902 903 904 907	SDBA_R0	26	BS0
901 904 907	SDBCK_R1	46	CLK
901 904 907	SDCK_R1	45	CLK
901 902 903 904 907	SDCKE_R	44	CKE
901 902 903 904 907	SDCS_R0	24	CS
901 902 903 904 907	SDRAS_R	23	RAS
901 902 903 904 907	SDCAS_R	22	CAS
901 902 903 904 907	SDWE_R	21	WE
901 907	SDDM_R6 — R963 33(J)	20	LDM
901 907	SDDM_R7 — R964 33(J)	47	UDM
901 907	SDDQS_R6 — R965 33(J)	16	LDQS
901 907	SDDQS_R7 — R966 33(J)	51	UDQS
		14	NC
		17	NC
		19	NC
		25	NC
		43	NC
		50	NC
		53	NC
		3	[VDDQ] [VSSQ]
		9	[VDDQ] [VSSQ]
		15	[VDDQ] [VSSQ]
		55	[VDDQ] [VSSQ]
		61	[VDDQ] [VSSQ]
		1	[VDD] [VSS]
		18	[VDD] [VSS]
		33	[VDD] [VSS]
902 903 904 906	Vref_Std	49	[VREF]

DQ0	2	SDM_R48 901 907
DQ1	4	SDM_R49 901 907
DQ2	5	SDM_R50 901 907
DQ3	7	SDM_R51 901 907
DQ4	8	SDM_R52 901 907
DQ5	10	SDM_R53 901 907
DQ6	11	SDM_R54 901 907
DQ7	13	SDM_R55 901 907
DQ8	54	SDM_R56 901 907
DQ9	56	SDM_R57 901 907
DQ10	57	SDM_R58 901 907
DQ11	59	SDM_R59 901 907
DQ12	60	SDM_R60 901 907
DQ13	62	SDM_R61 901 907
DQ14	63	SDM_R62 901 907
DQ15	65	SDM_R63 901 907

RM949 [RMX4A] 33(J)
RM950 [RMX4A] 33(J)
RM951 [RMX4A] 33(J)
RM952 [RMX4A] 33(J)

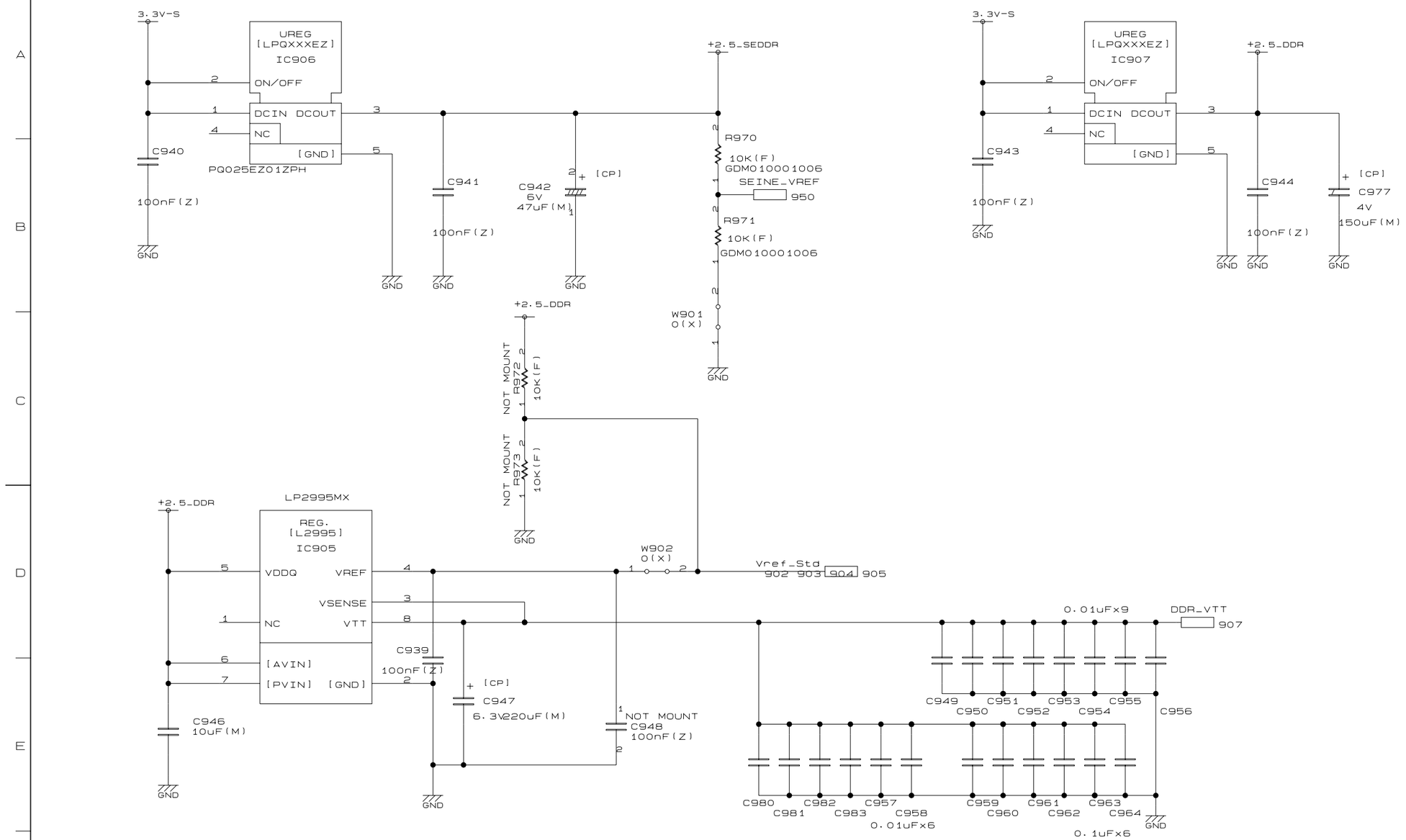
+2.5_DDR

C928 10uF(M) NOT MOUNT
C929 100nF(Z) 10nF(K)
C930 100nF(Z) 10nF(K)
C931 100nF(Z) 10nF(K)
C932 100nF(Z) 10nF(K)
C933 100nF(Z) 10nF(K)
C934 100nF(Z) 10nF(K)
C935 100nF(Z) 10nF(K)
C936 100nF(Z) 10nF(K)
C974 100nF(Z) 10nF(K)
C975 100nF(Z) 10nF(K)
C976 10nF(K)

GND

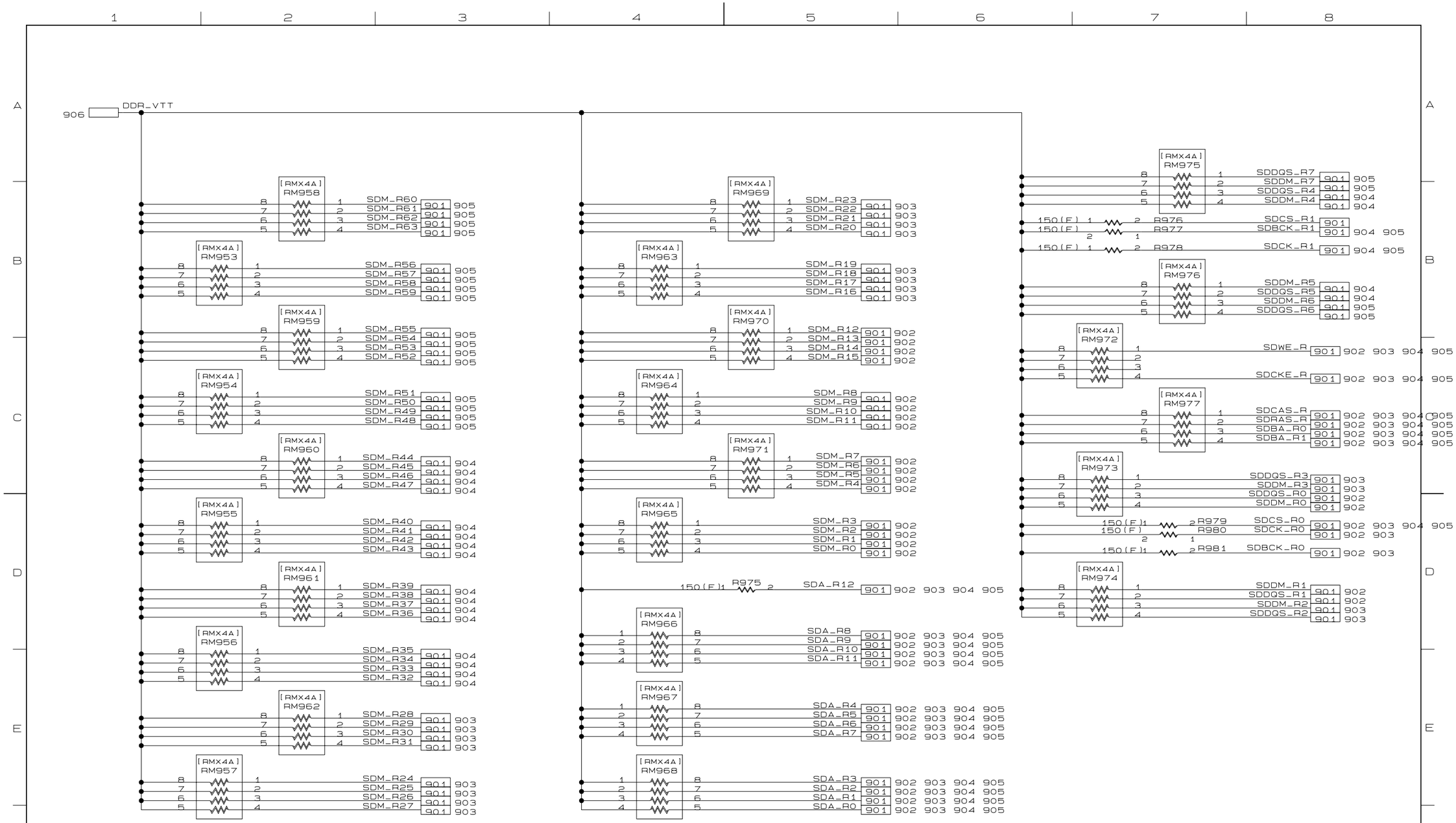
62HM95
SEINE_DIGITAL (DDR_4)

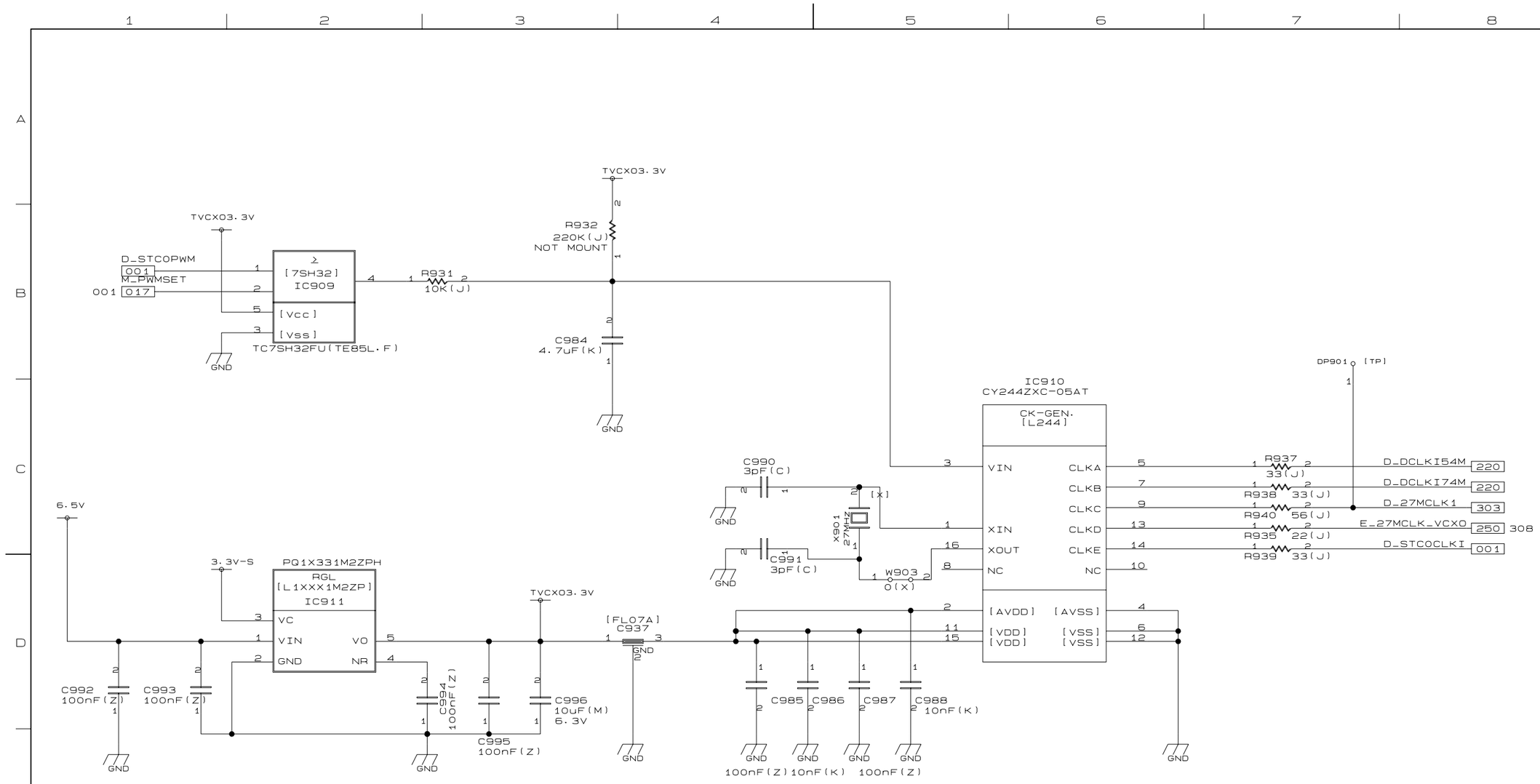
SH.NO. 905



62HM95
SEINE_DIGITAL (DDR_POWER)

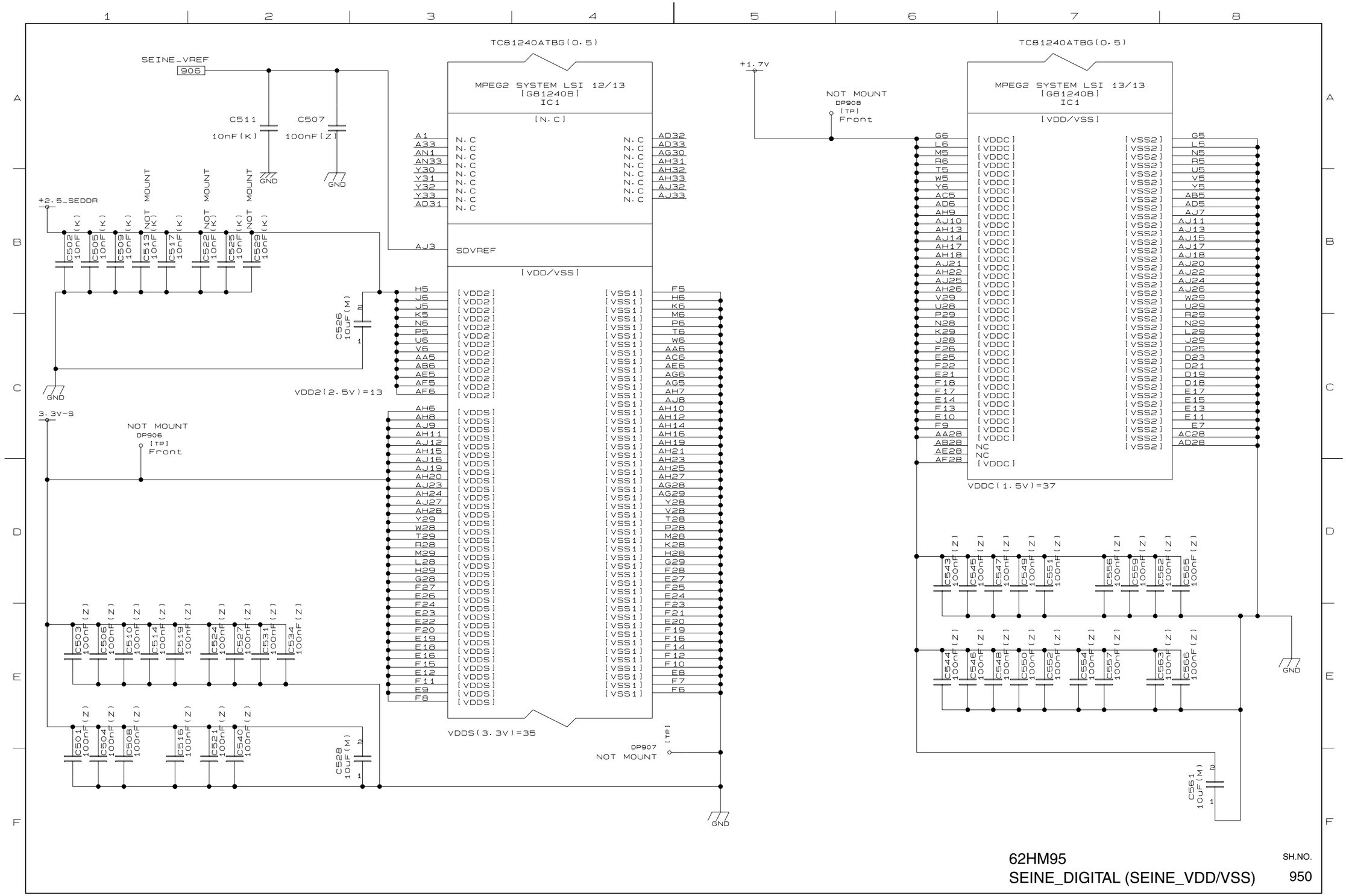
SH.NO.
906

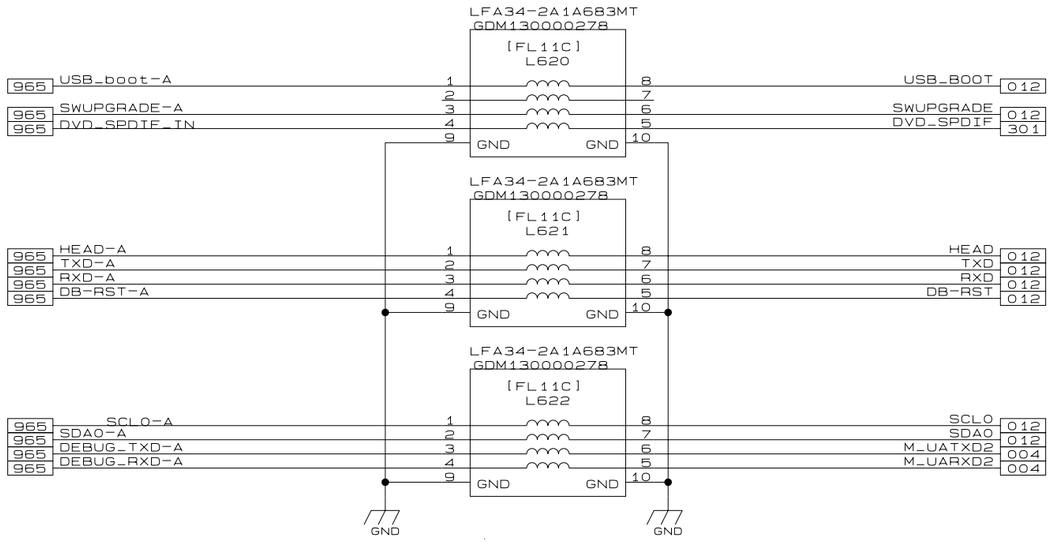

906
DDR_VTT
[RMX4A] RM958
SDM_R60
SDM_R61
SDM_R62
SDM_R63
[RMX4A] RM953
SDM_R56
SDM_R57
SDM_R58
SDM_R59
[RMX4A] RM959
SDM_R55
SDM_R54
SDM_R53
SDM_R52
[RMX4A] RM954
SDM_R51
SDM_R50
SDM_R49
SDM_R48
[RMX4A] RM960
SDM_R44
SDM_R45
SDM_R46
SDM_R47
[RMX4A] RM955
SDM_R40
SDM_R41
SDM_R42
SDM_R43
[RMX4A] RM961
SDM_R39
SDM_R38
SDM_R37
SDM_R36
[RMX4A] RM956
SDM_R35
SDM_R34
SDM_R33
SDM_R32
[RMX4A] RM962
SDM_R28
SDM_R29
SDM_R30
SDM_R31
[RMX4A] RM957
SDM_R24
SDM_R25
SDM_R26
SDM_R27
[RMX4A] RM969
SDM_R23
SDM_R22
SDM_R21
SDM_R20
[RMX4A] RM963
SDM_R19
SDM_R18
SDM_R17
SDM_R16
[RMX4A] RM970
SDM_R12
SDM_R13
SDM_R14
SDM_R15
[RMX4A] RM964
SDM_R8
SDM_R9
SDM_R10
SDM_R11
[RMX4A] RM971
SDM_R7
SDM_R6
SDM_R5
SDM_R4
[RMX4A] RM965
SDM_R3
SDM_R2
SDM_R1
SDM_R0
150(F) R975
SDA_R12
[RMX4A] RM966
SDA_R8
SDA_R9
SDA_R10
SDA_R11
[RMX4A] RM967
SDA_R4
SDA_R5
SDA_R6
SDA_R7
[RMX4A] RM968
SDA_R3
SDA_R2
SDA_R1
SDA_R0
[RMX4A] RM975
SDDQS_R7
SDDM_R7
SDDQS_R4
SDDM_R4
150(F) R976
150(F) R977
150(F) R978
SDCS_R1
SDBCK_R1
SDCK_R1
[RMX4A] RM976
SDDM_R5
SDDQS_R5
SDDM_R6
SDDQS_R6
[RMX4A] RM972
SDWE_R
SDCKE_R
[RMX4A] RM977
SDCAS_R
SDRAS_R
SDBA_R0
SDBA_R1
[RMX4A] RM973
SDDQS_R3
SDDM_R3
SDDQS_R0
SDDM_R0
150(F) R979
150(F) R980
150(F) R981
SDCS_R0
SDCK_R0
SDBCK_R0
[RMX4A] RM974
SDDM_R1
SDDQS_R1
SDDM_R2
SDDQS_R2
62HM95
SEINE_DIGITAL (TERMINATOR)
SH.NO.
907



62HM95
SEINE_DIGITAL (VCXO)

SH.NO.
941

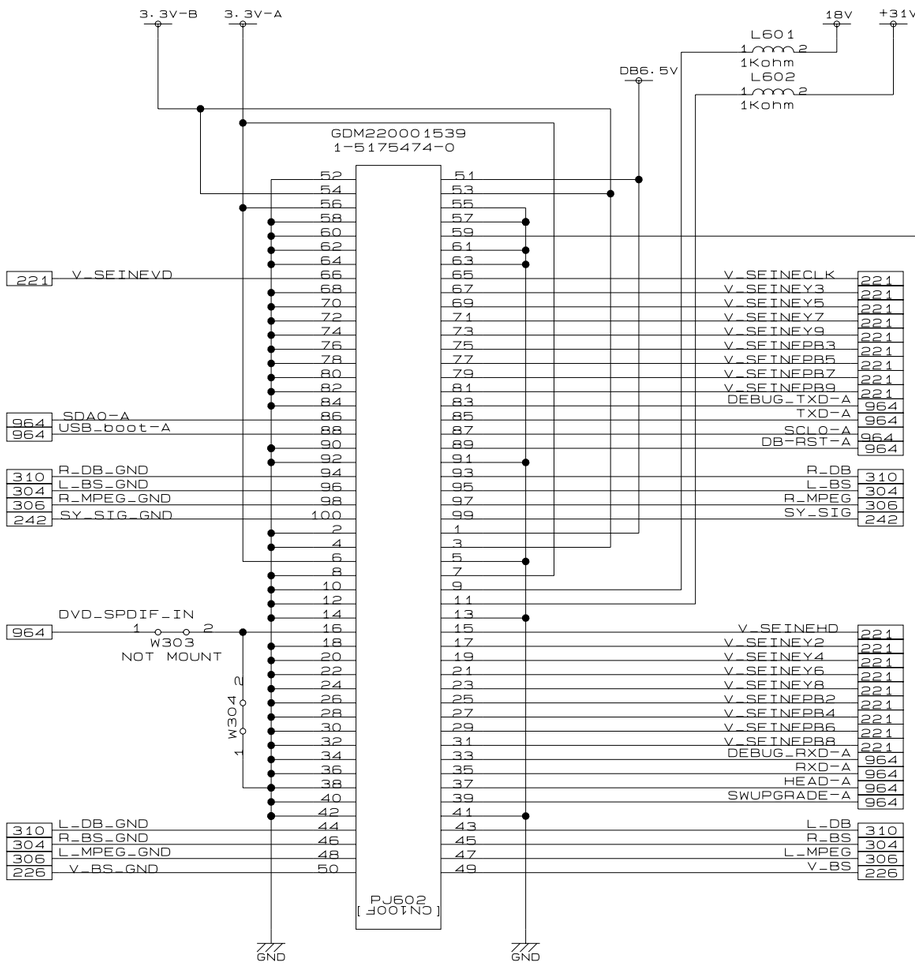

TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 12/13
[G81240B]
IC1
[N.C]
SDVREF
[VDD/VSS]
SEINE_VREF
906
C511
10nF(K)
C507
100nF(Z)
GND
+2.5_SEDDR
C502 10nF(K)
C505 10nF(K)
C509 10nF(K)
C513 NOT MOUNT 10nF(K)
C517 10nF(K)
C522 NOT MOUNT 10nF(K)
C525 NOT MOUNT 10nF(K)
C529 10nF(K)
C526 10uF(M)
VDD2(2.5V)=13
3.3V-S
NOT MOUNT
DP906
[TP]
Front
C503 100nF(Z)
C506 100nF(Z)
C510 100nF(Z)
C514 100nF(Z)
C519 100nF(Z)
C524 100nF(Z)
C527 100nF(Z)
C531 100nF(Z)
C534 100nF(Z)
C501 100nF(Z)
C504 100nF(Z)
C508 100nF(Z)
C516 100nF(Z)
C521 100nF(Z)
C540 100nF(Z)
C528 10uF(M)
VDDS(3.3V)=35
DP907
NOT MOUNT
[TP]
+1.7V
NOT MOUNT
DP908
[TP]
Front
TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 13/13
[G81240B]
IC1
[VDD/VSS]
VDDC(1.5V)=37
C543 100nF(Z)
C545 100nF(Z)
C547 100nF(Z)
C549 100nF(Z)
C551 100nF(Z)
C556 100nF(Z)
C559 100nF(Z)
C562 100nF(Z)
C565 100nF(Z)
C544 100nF(Z)
C546 100nF(Z)
C548 100nF(Z)
C550 100nF(Z)
C552 100nF(Z)
C554 100nF(Z)
C557 100nF(Z)
C563 100nF(Z)
C565 100nF(Z)
C561 10uF(M)
GND
62HM95
SEINE_DIGITAL (SEINE_VDD/VSS)
SH.NO.
950

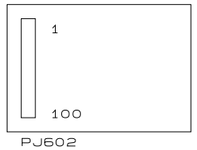


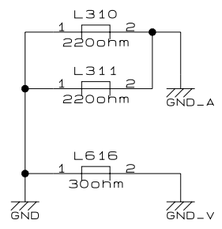
62HM95
SEINE_DIGITAL (Signal_filter)

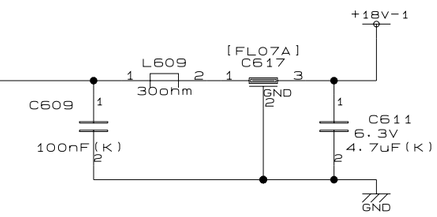
SH.NO.
964

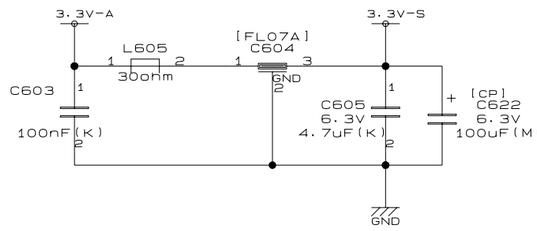
1. DB6.5V
2. GND
3. 3.3V-B
4. GND
5. GND
6. 3.3V-A
7. 3.3V-A
8. GND
9. 18VFOR ANALOG AUDIO
10. GND
11. 31V
12. GND
13. GND
14. GND
15. HD
16. GND
17. Y_G0
18. GND
19. Y_G2
20. GND
21. Y_G4
22. GND
23. Y_G6
24. GND
25. PBPR_C0
26. GND
27. PBPR_C2
28. GND
29. PBPR_C4
30. GND
31. PBPR_C6
32. GND
33. DEBUG_RXD
34. GND
35. RXD
36. GND
37. HEAD
38. GND
39. SWUPGRADE
40. GND
41. GND
42. GND
43. L_DB
44. L_DB_GND
45. R_BS
46. R_BS_GND
47. L_MPEG
48. L_MPEG_GND
49. V_BS
50. V_BS_GND
51. DB6.5V
52. GND
53. 3.3V-B
54. 3.3V-B
55. GND
56. 3.3V-A
57. GND
58. GND
59. 11V2(FOR POD)
60. GND
61. GND
62. GND
63. GND
64. GND
65. DIGITAL CLOCK
66. VD
67. Y_G1
68. GND
69. Y_G3
70. GND
71. Y_G5
72. GND
73. Y_G7
74. GND
75. PBPR_C1
76. GND
77. PBPR_C3
78. GND
79. PBPR_C5
80. GND
81. PBPR_C7
82. GND
83. DEBUG_TXD
84. IIC_CLK
85. TXD
86. GND
87. IIC_DATA
88. USB BOOT
89. DB_RST
90. GND
91. GND
92. GND
93. R_DB
94. R_DB_GND
95. L_BS
96. L_BS_GND
97. R_MPEG
98. R_MPEG_GND
99. V_SIG
100. SY_SIG_GND

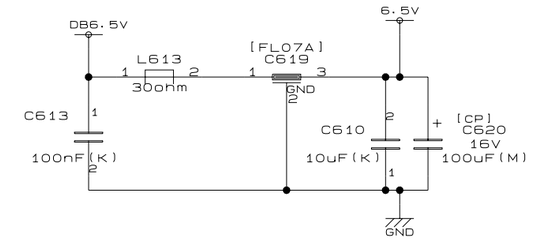


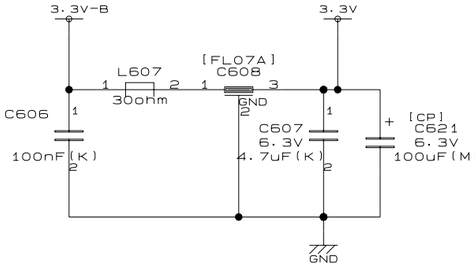






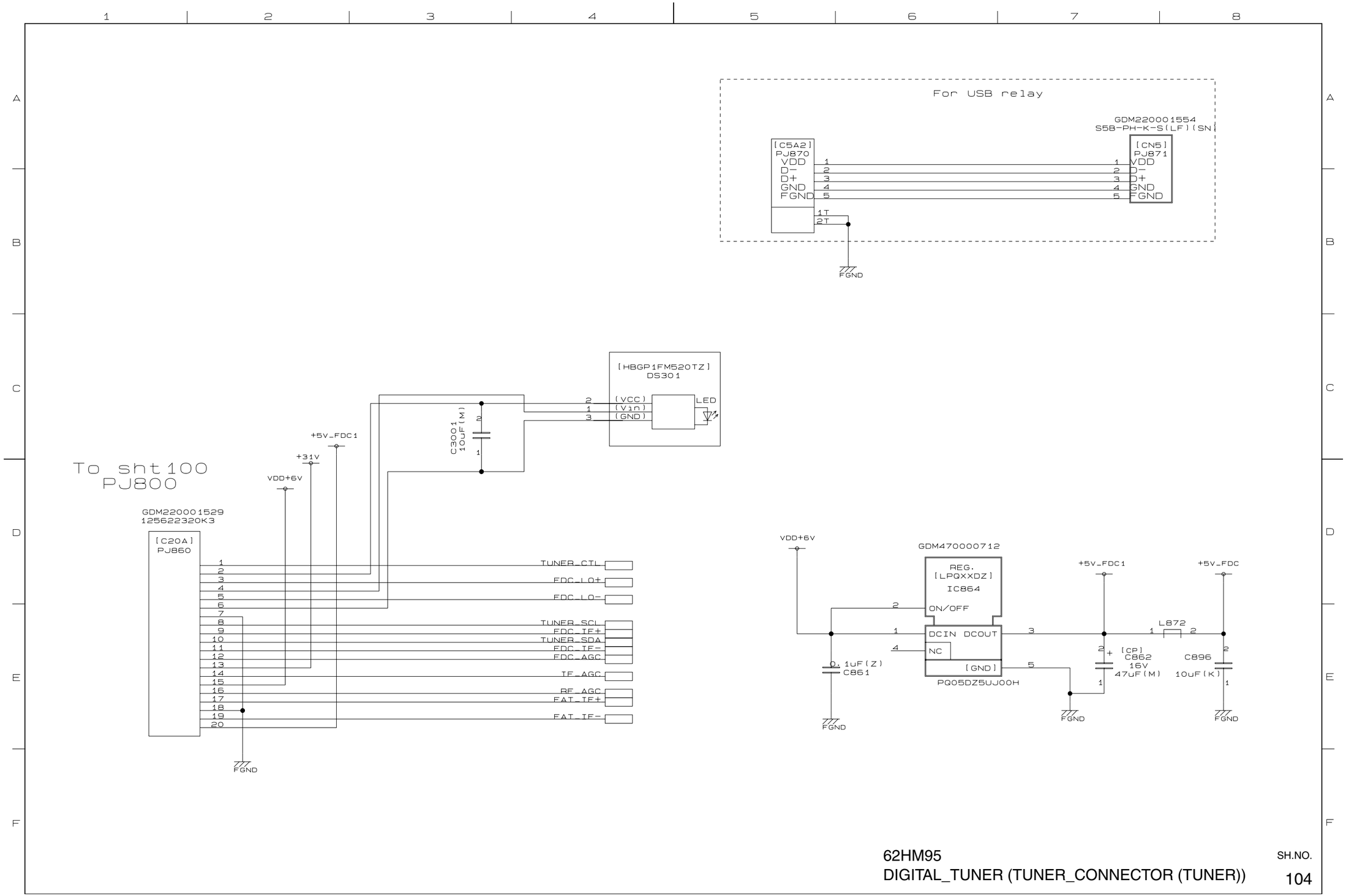






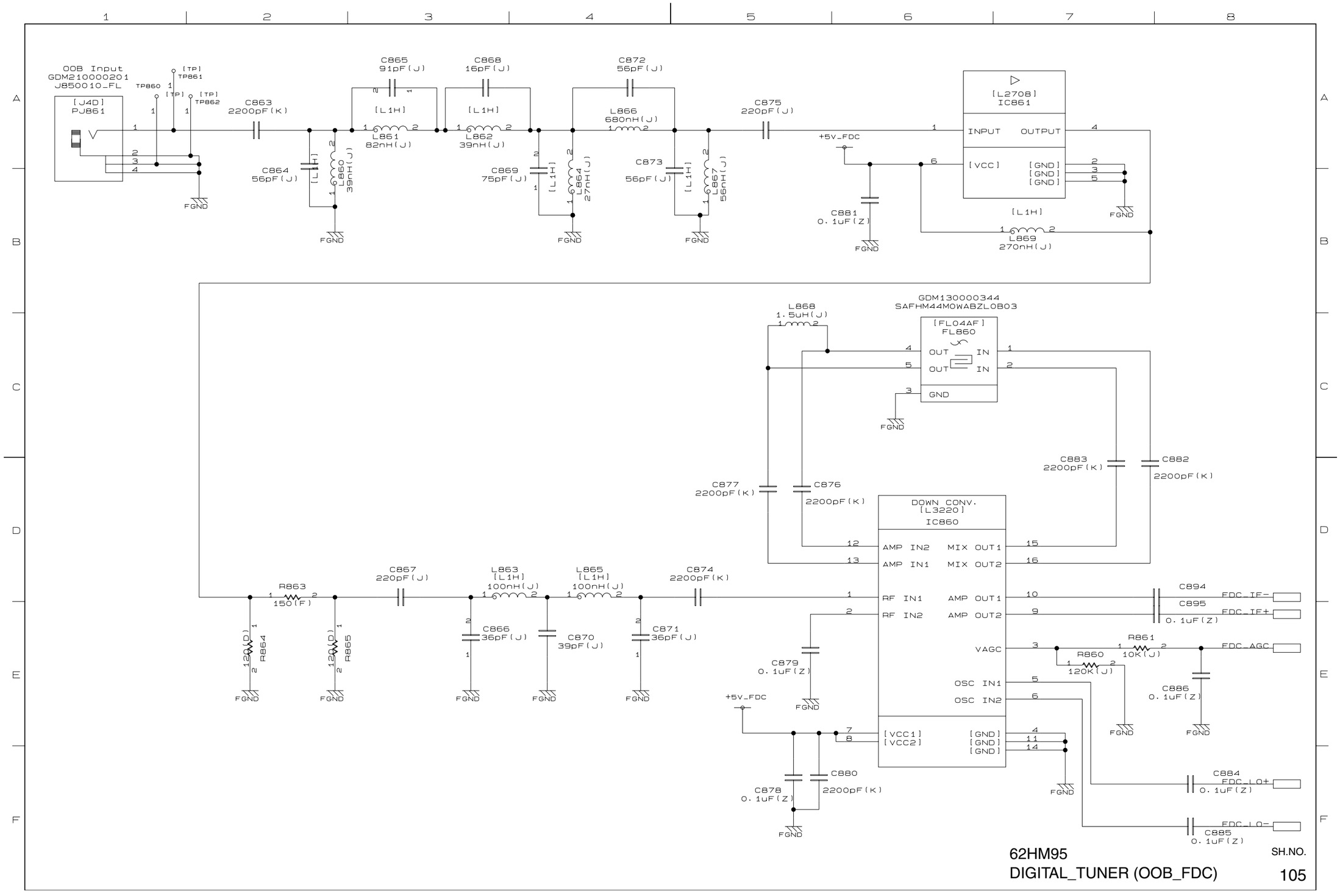
62HM95
SEINE_DIGITAL (CONNECTOR)

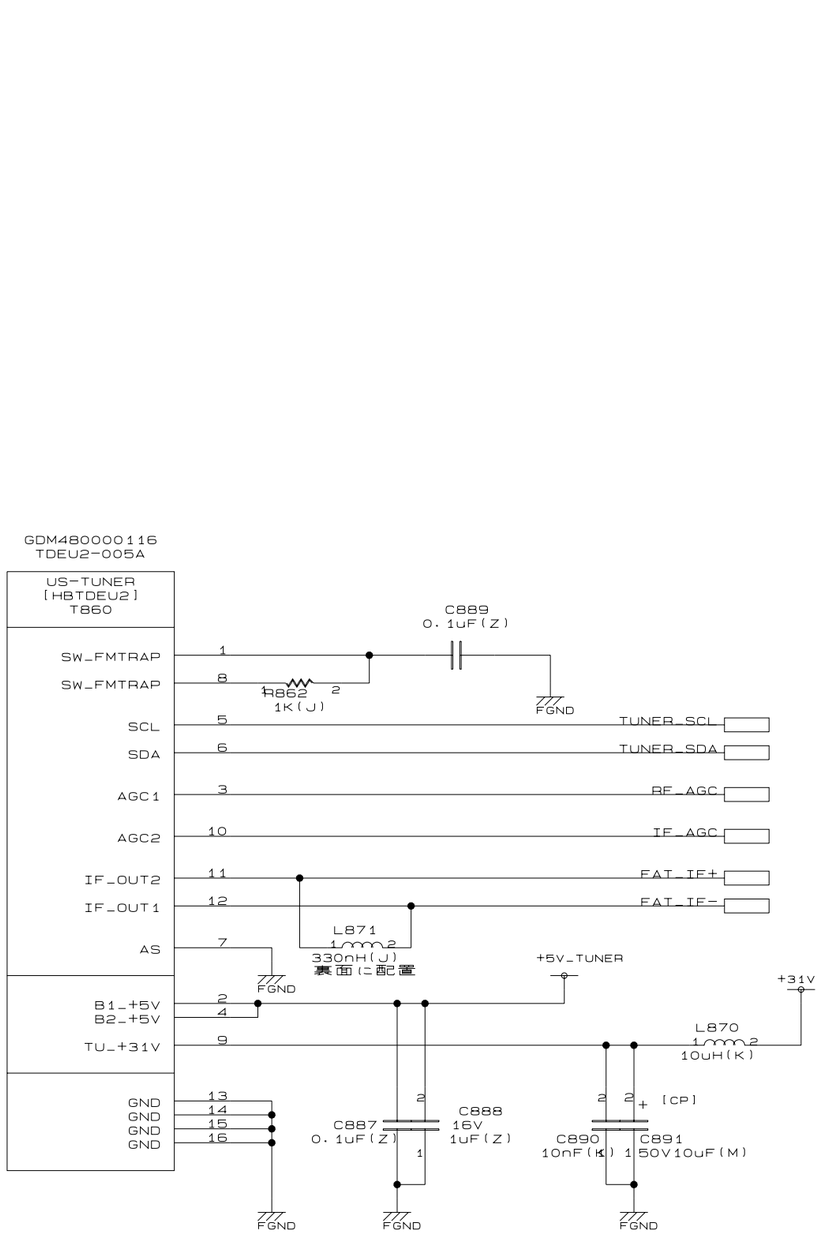
SH.NO.
965

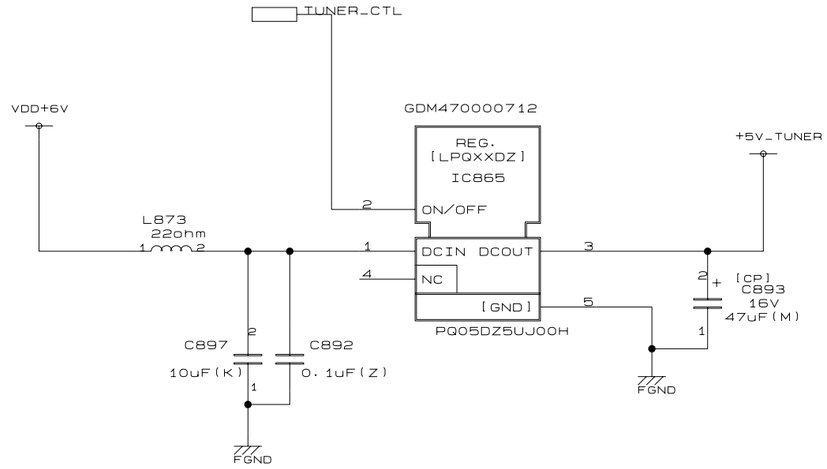


62HM95
DIGITAL_TUNER (TUNER_CONNECTOR (TUNER))

SH.NO.
104


OOB Input
GDM2100002O1
J850010_FL
[J4D]
PJ861
[TP]
TP860
[TP]
TP861
[TP]
TP862
C863
2200pF(K)
C865
91pF(J)
C868
16pF(J)
C872
56pF(J)
C875
220pF(J)
[L1H]
L861
82nH(J)
[L1H]
L862
39nH(J)
L866
680nH(J)
C864
56pF(J)
[L1H]
L860
39nH(J)
C869
75pF(J)
[L1H]
L864
27nH(J)
C873
56pF(J)
[L1H]
L867
56nH(J)
FGND
+5V_FDC
C881
0.1uF(Z)
[L2708]
IC861
INPUT
OUTPUT
[VCC]
[GND]
[GND]
[GND]
[L1H]
L869
270nH(J)
L868
1.5uH(J)
GDM130000344
SAFHM44M0WABZL0B03
[FL04AF]
FL860
OUT
OUT
IN
IN
GND
C883
2200pF(K)
C882
2200pF(K)
C877
2200pF(K)
C876
2200pF(K)
DOWN CONV.
[L3220]
IC860
AMP IN2
AMP IN1
MIX OUT1
MIX OUT2
R863
150(F)
C867
220pF(J)
L863
[L1H]
100nH(J)
L865
[L1H]
100nH(J)
C874
2200pF(K)
RF IN1
RF IN2
AMP OUT1
AMP OUT2
C894
C895
0.1uF(Z)
FDC_IF-
FDC_IF+
R864
120(D)
R865
120(D)
C866
36pF(J)
C870
39pF(J)
C871
36pF(J)
C879
0.1uF(Z)
R861
10K(J)
R860
120K(J)
FDC_AGC
C886
0.1uF(Z)
VAGC
OSC IN1
OSC IN2
+5V_FDC
[VCC1]
[VCC2]
[GND]
[GND]
[GND]
C878
0.1uF(Z)
C880
2200pF(K)
C884
0.1uF(Z)
FDC_LO+
FDC_LO-
C885
0.1uF(Z)
62HM95
DIGITAL_TUNER (OOB_FDC)
SH.NO.
105





62HM95
DIGITAL_TUNER (FAT_TUNER)

SH.NO.
106